



System Diagrams	149
System 5 'Scout' Sensors & Loggers	150
Additional External Sensors for use with Scout Plus	151
System 5 Bridges - Receivers & Echos	152
System 5 Receivers & Bases	153
System 5 Comms Card & Software	154
Icespy SL & MR Loggers	155
Tinytag Talk 2	156
Tinytag Transit	158
Tinytag Speciality	159
Tinytag Ultra 2	160
Tinytag Plus	162
Tinytag Plus 2	163
Tinytag Plus IS	166
Tinytag Plus Re-Ed	168
Tinytag Instrument	172
Tinyview Plus	173
Tinytag Instrument	176
Tinyview Plus	177
Tinytag Accessories	178

01

02

03

04

05

06

07

08

09

10

11

12



WIRELESS TEMPERATURE MONITORING



IceSpy is a leading wireless monitoring system for temperature and other measurements.

- **Peace of mind** that your assets, stock or processes are being accurately and reliably monitored
- **No wires or cables** that are costly to install and cause headaches when equipment needs to be moved or replaced
- **Local and remote alarms** via modem, text message or email to one or more recipients
- **Continuous and automatic data** gathering from sensors, to a PC or network
- **Real-time and historic data** viewable from a single PC, several PCs on a network, or via the internet*
- **Aids compliance** with due diligence systems such as HACCP, 21 CFR and ISO 9001/2000
- **Secure software** provides tamper-proof data

*Available mid 2007

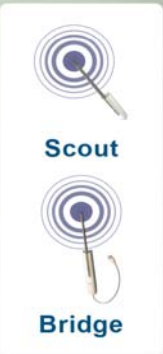
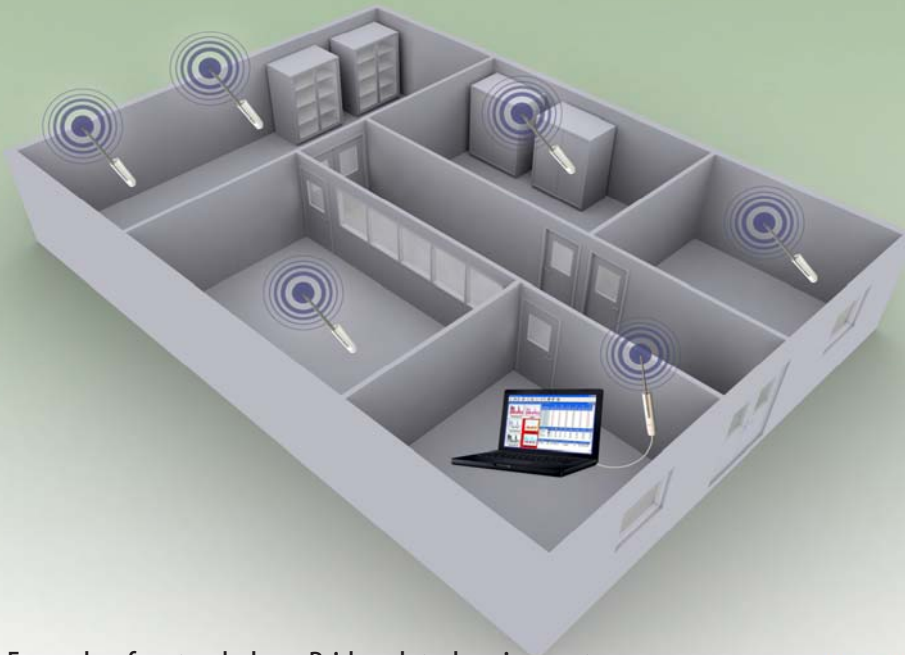
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01
02
03
04
05
06
07
08
09
10
11
12

ICESPY® Mini System



Example of a stand alone Bridge data-logging system

Illustration Not to Scale

ICESPY® System 5



Example of a multiple PC networked data-logging system

Illustration Not to Scale

08 Data Monitoring & Recording

System 5 'Scout' Sensors & Loggers

System 5 Scout



The SCOUT is the sensor and logger component of an IceSpy System 5.

The SCOUT is a combination of one Sensor (Single channel), housed together with power source (battery), radio transmitter, real-time clock and data storage facilities. It comprises a single PCB mounted within a custom plastic enclosure. The enclosure is ultrasonically welded to form a watertight seal. An external antenna is over moulded onto the plastic case.

A wall or shelf mounting fixture is provided as an integral part of the design.

Part No.	Description	List Price £
S5-SCOUT	Single channel recorder/transmitter with internal temperature sensor	120.00

Physical	Dimensions	120mm (+150mm for antenna) x 30mm x 30mm	
	Weight	80g	
	IP Rating	IP68	
	Operating Temperature	-40°C to +70°C, humidity 0-100%	
	Storage Temperature	-40°C to +85°C	
	Casing	ABS with rubber overmoulding for sealing antenna and LEDs	

Data Storage	Capacity	1 Channel	
	Memory Type	-	
	Logging Intervals	10 mins	1 hour
	Max. Time without Offload	13+ Days	80+ Days
	Battery Charge	at least 5 Years	

Radio range: up to 1000 metres in free space

System 5 Scout_{PLUS}



The SCOUT_{PLUS} as well as all the characteristics of the standard Scout, has a second channel to receive data from an external sensor.

The SCOUT_{PLUS} is a combination of two Sensors (Dual channel), housed together with power source (battery), radio transmitter, real-time clock and data storage facilities.

Optional external sensor configurable for temperature, humidity, and door event

Part No.	Description	List Price £
S5-SCOUT PLUS	Two channel recorder/transmitter with internal temperature sensor and connector for external sensor/door switch	145.00

Physical	Dimensions	120mm (+150mm for antenna) x 30mm x 30mm	
	Weight	80g	
	IP Rating	IP68	
	Operating Temperature	-40°C to +70°C, humidity 0-100%	
	Storage Temperature	-40°C to +85°C	
	Casing	ABS with rubber overmoulding for sealing antenna and LEDs	

Data Storage	Capacity	2 Channel	
	Memory Type	-	
	Logging Intervals	10 mins	1 hour
	Max. Time without Offload	13+ Days	80+ Days
	Battery Charge	at least 5 Years	

Radio range: up to 1000 metres in free space

System 5 T-BAR



The SCOUT T-BAR is a combination of one Sensor housed inside a pointed (insertion) probe, together with power source (battery), radio transmitter, real-time clock and data storage facilities, in a rugged stainless-steel enclosure.

The unit is a robust temperature sensor and transmitter designed for insertion into food products during cooking and/or blast freezing operations and comprises a single PCB mounted within a custom stainless steel enclosure, sealed to better than IP68. An internal antenna is contained with a nylon end-cap.

Part No.	Description	List Price £
S5-T-BAR	Stainless Steel T-Probe recorder/transmitter with internal temperature sensor for harsh environments	465.00

Physical	Dimensions	172mm x 33mm	
	Weight	260g	
	IP Rating	IP68	
	Operating Temperature	-40°C to +85°C, humidity 0-100%	
	Storage Temperature	-40°C to +85°C	
	Casing	304 stainless steel case with 316 stainless steel insertion probe and 'delrin' endcap for sealing antenna	

Data Storage	Capacity	2 Channel		
	Memory Type	-		
	Logging Intervals	1 mins	10 mins	1 hour
	Max. Time without Offload	33 hours	13+ Days	80+ Days
	Battery Charge*	at least 5 Years		

* (@25°C, 2.5 years @ 70°C continuous)

Radio range: up to 300 metres in free space

Data Monitoring & Recording 08

Additional External Sensors for use with Scout Plus

Part No.	Description	List Price £
S5-T	System 5 External stainless Steel sensor. 1.5m lead	69.00
S5-T-XX	System 5 External stainless Steel sensor. Upto 10m lead	129.00

Reading	
Measuring Range	-80°C to +140°C
Accuracy	±0.5°C (-40°C to +85°C) ±1°C (-50°C to -40°C) ±5°C (Below -50°C)

Mechanical	
Sensor Diameter Ø	4mm
Sensor Length	60mm
Sensor Material	Stainless Steel (316)
Lead Length	1500mm
Lead Material	PTFE / FEP Screened
Sensor Type	NTC Thermistor
Connector IP Rating	IP68 (excl. connection to Scout) IP67 (incl. connection to Scout)



System 5 External Probe

Part No.	Description	List Price £
S5-PIPE	System 5 Hot/Cold water pipe sensor	95.00

Reading	
Measuring Range	-80°C to +140°C

System 5 Pipe Sensor



Part No.	Description	List Price £
S5-H	System 5 Humidity Sensor	125.00

Reading	
Measuring Range	0% to 100% RH
Accuracy	±2% (10% to 90% RH) ±4% (0% to 100% RH)

System 5 Humidity Probe



Part No.	Description	List Price £
S5-D	System 5 Light-Weight external door events sensor (For domestic/catering fridges)	88.00
S5-D-IND	System 5 Standard External door events sensor	99.00

Smallest time interval recorded	5 seconds
Smallest time interval displayed	1 minute
Data presentation	'X' minutes open during the corresponding log period, e.g. 3 minutes total open time in 10 minutes
S5-D-IND Dimensions	80 x 80 x 20mm
Cable Material	PVC Screened
Standard Cable Length	1500mm
IP Rating	IP67

Short open times (less than 1 minute) rounded up to 1 minute
 Short closed times (less than 1 minute) rounded up to 1 minute
 Successive short openings during the same minute: recorded as one minute

System 5 Door Probes



01

02

03

04

05

06

07

08

09

10

11

12

08 Data Monitoring & Recording

System 5 Bridges - Receivers & Echos

System 5 Bridge



The **BRIDGE** is a device for collecting and forwarding data to and from the SCOUT (or SCOUTPLUS) units of an IceSpy System 5. Powered by a USB connection to a PC which off-loads data periodically. For times when it is necessary to shut down the PC such as weekends, holidays etc, data can be temporarily stored in the Scouts and then automatically transmitted to the database on the next power up of the PC. Alarm alerts can be programmed by the software and sent to mobile phone or email contacts via the PC.

The Bridge is an inexpensive 'plug and play' receiver to start a System 5 radio logger system, which can be added to in the future by the addition of more scouts, echo's or changing to a Base/Base Plus for total adaptability.

Part No.	Description	List Price £
S5-BRIDGE	Direct download from scout to PC via USB port.	250.00

It is recommended that for 'Bridge' systems a dedicated PC that can be left on is used to download the readings.

Data Storage	Capacity	Upto 64 Channels	
	Memory Type	-	
	Logging Intervals	Every 60 secs	
	Max. Time without Offload	Scout Dependant	
Back-Up Battery Charge	None		
Electrical	Power Supply	USB	
	Cable Length	2 metres	
	Output	USB	
Radio	Radio Frequency	433.9 MHz (UK/Europe), licence-free band. ETSI 300-220 standard	
	Power	max. 10mW (+10dBm)	
	Transmitter Duty Cycle	<10% (ETSI 300-220 standard)	
Physical	Dimensions (Approx.)	Height	120mm
		Width	30mm
		Depth	30mm
		Aerial	150mm
	Case Material	ABS	
IP Rating	IP65 (Excluding USB connection to PC)		

System 5 Echo



In installations where the receiver unit is situated too far away from any Scouts to guarantee adequate signal strength, an 'Echo' repeater unit can be used to relay the signal on to the Base unit or Bridge.

Due to the high transmitting power of the Scouts and Base units these are generally used in larger installations and can always be added later on, or to an existing installation when adding more Scouts.

With a 6 hour rechargeable battery back-up in the event of failure of the 220/240V power supply, continual 1-way communication with a Base or 2-way communication with the Bridge is maintained. The Echo is capable of accepting data from upto 128 Scouts or Scout Plus's

Part No.	Description	List Price £
S5-ECHO	System 5 radio repeater unit	270.00

Electrical	Power Supply	220/240Vac, 50Hz	
	Input Power	120mW average	
	Output	Radio only	
Radio	Radio Frequency	433.9 MHz (UK/Europe), licence-free band. ETSI 300-220 standard	
	Power	max. 10mW (+10dBm)	
	Transmitter Duty Cycle	<10% (ETSI 300-220 standard)	
Physical	Dimensions	Height	170mm
		Width	230mm
		Depth	50mm
	Case Material	ABS	
	IP Rating	IP65	
Weight	880g		
Operating temperature range	humidity 090%		

System 5 Base

The BASE is the device for collecting, storing and forwarding data to and from the SCOUT (or SCOUT PLUS) units of an IceSpy System 5. Also automatically transfers data to a PC and sends alarms via modem to mobile phone or pager (Depending on Comms option chosen).

A typical System5 comprises of a number of SCOUTs, one or more BASE or BASEPLUS units and PC with special PC application software. Optional ECHO and external sensors are also available.



Features

- Upto 64 channel storage
- Real time clock Time-Stamping accurate to ±2 secs
- Independent data storage and transfer regardless of PC being operational (Within limits of Base storage).
- Ability to switch between 16 and 32 channels to increase data recorded per channel.
- Data automatically and continually downloaded to connected PC for permanent storage in Database.
- Oldest Data over-written when full (If unable to offload to PC)
 - Variety of outputs to alarms, BMS's, Networks
- USB or network connection to PC (Specified from Comms option)
 - LED indication of operation

	Part No.	Description	List Price £	
	S5-BASE	System 5 - 64 Channel Base Unit (Requires Comms option)	580.00	
Storage	Capacity	Upto 64 Channels		
	Memory Type	Non-Volatile		
	Logging Intervals	1 min*	10 mins*	1 hour*
	Max. Time without Offload	7+ Hours	3+ Days	18+ Days
	Back-up Battery Charge	min. 24 hours		
Electrical	Power Supply	230Vac		
	Input Power	9Vdc (500mA)		
	Output	See Comms Options		
Radio	Radio Frequency	433.9 MHz (UK/Europe) 914.5 MHz (USA)		
	Power	max. 10mW (+10dBm)		
Physical	Dimensions	230 x 170 x 50mm		
	Weight	800-900g		
	Operating temperature	0°C to +40°C, humidity 0-90%.		
	Storage temperature	20°C to		
	Case Material	ABS		
IP Rating	IP53 (Dust Proof)			

*For extended offload interval times, the Base and Base Plus can be switched to 32 or 16 channels to increase storage capacity per channel.

System 5 Base_{PLUS}

The BASE_{PLUS} has all the features of a standard BASE unit but includes a convenient user interface. As well as being fully configurable from a PC the System 5 BASE_{PLUS} has a keypad and display to allow fast assessment of the radio system without the need to log on.



Features (Additional to standard Base)

Non-Critical (Local only) alarms can be acknowledged by keying password or pin into Base_{PLUS}

Display of current System 5 conditions via user interface
- Request and view current values on any stored channel of Data

- View alarm settings and other parameters for sensors
 - LED and audible indication of alarm status
- Request and view signal strength of sensors

	Part No.	Description	List Price £		
	S5-BASE PLUS	System 5 - 64 Channel Base Unit with user interface (Requires Comms option)	780.00		
Storage	Capacity	Upto 64 Channels			
	Memory Type	Non-Volatile			
	Logging Intervals	1 min	10 mins	1 hour	*
	Max. Time without Offload	7+ Hours	3+ Days	18+ Days	
	Back-up Battery Charge	min. 24 hours			
Electrical	Power Supply	230Vac			
	Input Power	9Vdc (500mA)			
	Output	See Comms Options			
Radio	Radio Frequency	433.9 MHz (UK/Europe) 914.5 MHz (USA)			
	Power	max. 10mW (+10dBm)			
Physical	Dimensions	230 x 170 x 50mm			
	Case Material	ABS			
	IP Rating	IP53 (Dust Proof)			

*For extended offload interval times, the Base and Base Plus can be switched to 32 or 16 channels to increase storage capacity per channel.

08 Data Monitoring & Recording

System 5 Comms Card & Software

System 5 Comms Card Options

Used with Base or Base_{PLUS} for communication with data base. Up to two options per Base unit can be chosen.

Model	Description	List Price £
S5-USB	USB Card	155.00
S5-NK	Network Card	155.00
S5-BMS	BMS Card	260.00
S5-MU	Modem	230.00
S5-MU-GSM	GSM Card	TBA

System 5 Software

Fully automatic transfer of data from Base and Bridge units

- Simple set up of alarm parameters
- Multiple alarm set-ups available
- Multiple alarm destinations
- Alarming to TXT, e-mail, PC - visual and audible
- Alarm destinations according to day or time of day
- Easy to retrieve historical data
- Different logging period data always available
- Data export function to file, paper or PDF
- Remote access to data available
- And many more easy to use facilities



The PC software is a component of IceSpy System 5. A typical System 5 comprises of a number of **SCOUTs** (each with one internal temperature sensor) and **SCOUTPLUS** units (each with one internal temperature sensor and provision for a second external sensor), one or more **BASE** or **BASEPLUS** units and PC with special PC application software. Optional **ECHO** repeater units and external sensors are also available.

The special IceSpy System 5 PC Software is a set of five independent applications, linked by a common database which together provide complete control over accessing and control of data collected from IceSpy Sensors. All access to the database is via the easy-to-use IceSpy System 5 applications.

Although the suite of applications contains a host of features for advanced users it maintains this easy interface for less experienced personnel or for those that simply require a straightforward data recording system.

Available in three versions:

Compact Software License

This is the standard, single-user software package that will be shipped with each system. The Compact software includes the SQL database and must be installed on the IceSpy Server. This is licence free software with free upgrades for first year. Use this software with the Mini-system and a single PC multi-channel System5. There is an additional annual license charge for unlimited upgrades from web site after one year if required. Compact version also includes a 30 day trial of the multi-user version of the software.

Multi-User Software License

Where more than one user and more than one PC is utilised in a system then a multi-user software package is required. This is as the Compact software package with additional features such as user-defined calculation functions and detailed audit trail. One of the PC's in the Network must be the IceSpy Server (this is the PC holding all the data). Any PC meeting the minimum specification can be used as the IceSpy Server. All other PC's are IceSpy Clients and view the data held on the IceSpy Server. Licenses are available in blocks of 5 seats. Free upgrades for first year, with additional annual license charge for unlimited upgrades from web site in the future if required.

Xtra Secure Software Version

Additional security features that enable compliance with 21CFR. User features are as the Multi-User software license with additional data security. The SQL database setup is different to the standard software and therefore the installation is different. Free upgrades for first year, with additional annual license charge for unlimited upgrades from web site in the future if required.

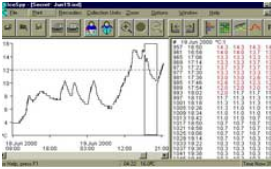
The Xtra Secure version of the software has a higher degree of control over authorised access and is suitable for incorporation into a validated system conforming to 21CFR part 11. Features unique to this version are marked in the specifications

Model	Description	List Price £
S5-COMPACT	Single user PC software. 1 PC/1 user - Comes with Bridge, Base & Base _{PLUS}	50.00 *
S5-NETWORK-5	Multi user PC Software. Calculation channels, client PC's and more. 5 users	500.00
S5-XSECUR	21CFR compliance software. 5 User	1,900.00
S5-XSECUR-ADD5	21CFR compliance software. Each additional 5 users	900.00
S5-UPGRADE-COMP	Annual upgrade renewal package - Compact	50.00
S5-UPGRADE-NETW	Annual upgrade renewal package - Network	125.00
S5-UPGRADE-XSEC	Annual upgrade renewal package - 21CFR secure	475.00

* Included FOC when bought with Bridge or Base options

SL Features

- 8,000 record memory
- 2 second to 4 hour recording interval
- Accurate to 0.5 degree C (meets Food Hygiene Regulations)
- Temperature alarms.
- Secure/tamperproof readings.
- Waterproof - IP 67.
- Powerful PC software option.
- Fast download (100 readings/second).
- External temperature sensor option for frozen/chilled (-40 to +40C) or for heated environments (0 to +90C)



Model	Description	List Price £
SL-4000	Icespy SL logger -40°C to +40°C	115.00
IS SL/PCK	Icespy software and cable for SL logger	78.00

MR Features

- 6000 record memory
- Up to three channels available
- One channel for internal thermistor sensor (-40C to +60C)
- One channel for optional external temperature sensors (-50C to +150C)
- One channel for optional external door sensor (open / closed)
- Recording interval 4 to 60 seconds or 1 to 240 minutes
- Delayed recording start time: 1 minute to 1 month

Model	Description	List Price £
MR-6000	Icespy MR Logger	80.00
MR-PCK	Icespy software and cable for MR logger	53.00

Model	Description	List Price £
MRS-H	High range (+50C to +140C) external steel probe for MR/MR-T	60.00
MRS-L	Low range (-40C to +50C) external steel probe for MR/MR-T	60.00
MRS-M	Medium range (0C to +90C) external steel probe for MR/MR-T	60.00
MRS-PT100-A	External class A PT100 probe 175mmx6mm -200C to 270C (metal only)	90.00
MRS-D-IND	Heavy duty external door events sensor for MR/MR-T	99.00
MRS-D	External door events sensor for MR/MR-T	88.00
MRS-DA	External door events and external air probe combination kit for Multi-channel recorders	140.00
MRS-ADAPT	Adapter for MR recorder multiple external probes	10.00

Hawco/Martel thermal hand held printers for use with Icespy SL and MR data loggers. Comes with 4 x 1.2VNiMH, 1600mAh batteries and 1 roll of thermal paper

Model	Description	List Price £
MCP8810-113	Hawco/Martel thermal printer	160.00
MCP8810-LEAD-MR	1m printer connecting lead to MR logger	21.00
MCP8810-LEAD-SL	1m printer connecting lead to SL logger	21.00
MM58	Replacement thermal paper roll, 58mm wide	1.50

SL Loggers



Designed to help the food industry meet its own quality control needs and those of the Food Hygiene Regulations, IceSpy SL is a freezerproof, waterproof, tamperproof temperature monitor which senses and memorises the temperature of its environment at regular, user-defined, intervals. Its strong case contains a thermistor sensor, control and alarm circuits, 8000 record memory, precise clock/calendar, lithium battery, indicator lamps and printer/computer connector.

Mounted in a food cabinet, each IceSpy SL records the temperature at intervals of up to 4 hours and holds the information ready to be downloaded onto its special hand-held printer or a PC. A built in red indicator gives an immediate warning if the temperature is outside a selected range.

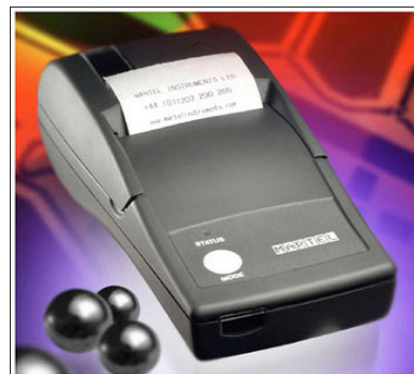
Used with its unique hand-held printer option, IceSpy SL offers a cost-effective and convenient solution to keeping permanent records to meet "due diligence" requirements. For those who wish to keep records on a PC, IceSpy software provides alarm setting and record analysis facilities in a powerful and versatile yet easy-to-use format.

MR Loggers



- Can be configured to record maximum temperature during each time period
- Can be configured to record minimum temperature during each time period
- Can be configured to record temperature at exact time of period (default)

Hawco Thermal Printers

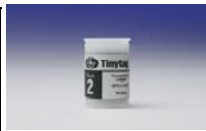


08 Data Monitoring & Recording

Tinytag Talk 2



-40°C to +85°C
Temperature Logger



-40°C to +85°C
Temperature Logger



-40°C to +125°C
Temperature Logger



TinyTalk 2
Compact, cost effective, high resolution loggers with a 16,000 reading capacity.

Tinytag Talk 2s are compact, lightweight, economical loggers housed in a 35mm film canister.

These loggers are used in a wide range of applications including fridge monitoring, building condition monitoring and academia.

Model	TK-4014	TK-4040-MED	TK-4023	
List Price £	59.00	59.00	65.00	
Features	Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
	No. of Readings	16000	16000	16000
	Resolution	0.05°C or better	0.05°C or better	0.05°C or better
	Start	-	Trigger Magnetic switch	Trigger Magnetic switch
	Delay	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, min, max	Actual, min, max	Actual, min, max
	Logging interval	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable
Battery life	1 year minimum	1 year minimum	1 year minimum	

TK-4014
The TK-4014 is self contained with an internal temperature sensor.

TK-4040-MED
The Tinytag Talk 2 Medical is a simple, cost effective way of monitoring the temperature of pharmaceuticals in fridges, freezers and cool (ambient) storage. Used widely by hospital pharmacies, surgeries and health centres, the logger automatically records and stores a complete temperature history.

The Tinytag Talk 2 Medical has two alarms that can be user set at high and low levels specific to the products being monitored. Breaching these set-points will trip a flashing red light, enabling spot assessment of ongoing temperature levels.

This compact, battery powered unit is reliable and highly accurate. Designed with a temperature response similar to many vaccine formats, it accurately profiles the temperature changes experienced by the pharmaceuticals being monitored.

The recording interval is user defined and with a memory capacity of 16,000 readings this would provide six months of data with a reading every half hour. The temperature history is transferred easily to PC, where Tinytag Explorer will automatically produce a graph and table of the data, creating a permanent record.

Physical	TK-4014	TK-4040-MED	TK-4023
Diameter	34mm/1.34"	34mm/1.34"	34mm/1.34"
Height	54mm/2.13"	54mm/2.13"	54mm/2.13" + Probe
IP Rating	IP54 Splashproof	IP54 Splashproof	IP30 (Not Waterproof)
Functional Range ¹	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
Weight (excl. cable)	30g / 1.06oz approx.	30g / 1.06oz approx.	30g / 1.06oz approx.

Sensor	TK-4014	TK-4040-MED	TK-4023
Temperature Range	-40°C to +85°C (-40°F to +185°F)	-30°C to +85°C (-22°F to +185°F)	-40°C to +125°C (-40°F to +257°F)
Type	10K NTC	10K NTC	10K NTC
Location	Internal	Internal	External Probe
Response Time	25 min to 90% (in air)	25 min to 90% (in air)	25 min to 90% (in air)
Accuracy	±0.5°C From 0°C to 50°C	±0.5°C From 0°C to 50°C	±0.4°C From 0°C to 70°C
Resolution	0.05°C or better	0.02°C or better	0.02°C or better

¹ Functional Range describes the range over which the logger will function, not the sensor range over which it will record.

Data Sheets available from www.tinytag.info

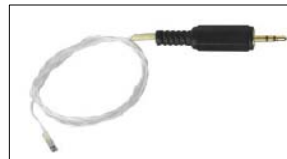
Required & Related Products



CAB-0005-USB



CAB-0005



PB-5005-0M6

Sensor	TK-4014	TK-4040-MED	TK-4023
Software	SWCD-0040	SWCD-0040	PB-5005-0M6 (Supplied)
Download Cable	CAB-0005 or CAB-0005-USB	CAB-0005 or CAB-0005-USB	SWCD-0040 CAB-0005 or CAB-0005-USB

TK-4023
The TK-4023 is supplied with an external probe allowing fast changing temperatures in difficult to access areas to be accurately tracked.

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0005	Tinytag Talk/Transit PC download cable, serial connection	5.00
CAB-0005-USB	Tinytag Talk/Transit PC download cable, USB connection	25.00
SER-9510	Tinytag Service Kit incl. Replacement battery	5.00
PB-5005-0M6	Thermistor probe to suit TK-4023, 0.6m cable length	11.00



0.. 25V DC
Voltage Logger

0.. 20mA
Current Logger

TinyTalk 2
Compact, cost effective, high resolution loggers with a 16,000 readings capacity.



Tinytag Talk 2s are compact, lightweight, economical loggers housed in a 35mm film canister.

TK-4702

Supplied with an input cable, this logger can measure voltages up to 25V DC and can be connected to many industry standard devices, such as CO2 sensor.

TK-4802

Supplied with an input cable, this logger can measure current between 0 and 20mA DC and can be connected to many industry standard devices, such as CO2 sensors and current clamps, enabling the logging of a wide range of process parameters.

	Model	TK-4702	TK-4802
	List Price £	70.00	70.00
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	16000	16000
	Resolution	1mV or better	1µA or better
	Delay	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, min, max	Actual, min, max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life	1 year minimum	1 year minimum

	Diameter	34mm/1.34"	34mm/1.34"
Physical	Height	54mm/2.13" + Probe	54mm/2.13" + Probe
	IP Rating	IP30 (Not Waterproof)	IP30 (Not Waterproof)
	Functional Range ¹	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
	Weight (excl. cable)	30g / 1.06oz approx.	30g / 1.06oz approx.

	Reading Range	0.. 25V DC	0.. 20mA
Input	Maximum input	35V	50mA
	Input impedance	100kΩ	75Ω
	Accuracy	±0.2% of reading ±10mV	±0.2% of reading ±10µA
	Temperature stability	1mV/°C change from ambient (25°C)	0.001mA/°C change from ambient (25°C)
	Resolution	1mV or better	1µA or better

¹ Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products



SER-9510



CAB-3233

Connector	CAB-3233 (Supplied)	CAB-3233 (Supplied)
Software	SWCD-0040	SWCD-0040
Download Cable	CAB-0005 or CAB-0005-USB	CAB-0005 or CAB-0005-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0005	Tinytag Talk/Transit PC download cable, serial connection	5.00
CAB-0005-USB	Tinytag Talk/Transit PC download cable, USB connection	25.00
SER-9510	Tinytag Service Kit incl. Replacement battery	5.00
CAB-3233	Talk Voltage/Current Input cable (200mm)	10.00

08 Data Monitoring & Recording

Tinytag Transit



-30°C to +50°C
Temperature Logger

-30°C to +85°C
Temperature Logger

Transit
A range of low cost loggers designed specifically for shipment monitoring.



Designed with transport in mind, Tinytag Transits are robust lightweight temperature monitoring solutions.

Used on trucks, airplanes and ships to monitor shipments of ethical drugs, foodstuffs and many other products.

TG-0050

The TG-0050 connects to a PC using a low-cost download cable.

TG-3080

The TG-3080 uses inductive communications enabling many loggers to be downloaded quickly without the need to remove lids or plug in cables.

	Model	TG-0050	TG-3080
	List Price £	35.00	50.00
Features	Memory Size	2k (Non-Volatile)	8k (Non-Volatile)
	No. of Readings	1800 approx.	7900 approx.
	Resolution	8 bit	8 bit
	Start	Pushbutton Switch	Reed relay
	Delay	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, min, max	Actual, min, max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	-	While stopped or while logging in minute multiples
	Alarms	Two, fully programmable	Two, fully programmable
	Battery life	Up to 2 years	1 year minimum
Physical	Diameter	60.2mm/2.38"	60.2mm/2.38"
	Thickness	15.3mm/0.6"	15.3mm/0.6"
	Hanging tab	extra 12mm/0.47"	extra 12mm/0.47"
	Mounting Hole	6mm/0.24" Ø	6mm/0.24" Ø
	IP Rating	IP54 Splashproof	IP54 Splashproof
	Functional Range ²	-40°C to +85°C/ -40°F to +185°F	-40°C to +85°C/ -40°F to +185°F
		Weight	26g / 0.92oz approx.
Sensor	Temperature Range	-30°C to +50°C -22°F to +122°F	-30°C to +85°C -22°F to +185°F
	Type	10K NTC	10K NTC
	Location	Internal	Internal
	Response Time ³	10 min to 90% (in air)	10 min to 90% (in air)
	Accuracy	±0.2°C From 0°C to 50°C	±0.2°C From 0°C to 50°C
	Resolution	0.25°C at 0°C 0.45°F at +32°F	<2°C, 60°C to 85°C <1°C, 35°C to 60°C <0.5°C, 25°C to 35°C <1°C, -40°C to -25°C

¹ To start the logger, pull the tab

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Data Sheets available from www.tinytag.info

Required & Related Products

Software	SWCD-0040	SWCD-0040
Download Cable/Pad	CAB-0005 or CAB-0005-USB	ACS-3020 or ACS-3030

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0005	Tinytag Talk/Transit PC download cable, serial connection	5.00
CAB-0005-USB	Tinytag Talk/Transit PC download cable, USB connection	25.00
ACS-3020	Tinytag Pad base station - Serial connection	35.00
ACS-3030	Tinytag Pad base station - USB Connection	35.00
SER-9512	Tinytag TG-0050 Service kit incl. Replacement battery	8.00
SER-9513	Tinytag TG-3080 Service kit incl. Replacement battery	8.00



Tinytag Speciality

A range of specialist loggers for specific applications.

-40°C to +85°C
"Aquatic 2"
Temperature Logger



-40°C to +105°C
"Splash 2"
Temperature Logger



Aquatic 2 Logger

Tiny Aquatic is a fully submersible logger with a temperature range suited to monitoring rivers and oceans.

Splash 2 Logger

The Tinytag Splash is fully cased in resin making it robust, waterproof and able to stand temperatures of over 100°C.

	Model	TG-4100	TG-4105
	List Price £	105.00	145.00
Features	No. of Readings	32000 approx.	32000 approx.
	Trigger Start	Reed relay	Reed relay
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, min, max	Actual, min, max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minute multiples	While stopped or while logging in minute multiples
	Alarms	Two, fully programmable	Two, fully programmable
	Battery life	Upto 2 years*	Upto 2 years [†]
	Offload Time	20 seconds	1 minute
	Offload Method	Inductive	Inductive

	Diameter	57.5mm	57.5mm
Physical	Thickness	48mm	48mm
	IP Rating ²	IP68	IP68
	Functional Range ³	-40°C to +85°C	-40°C to +105C
	Weight	140g approx.	140g approx.

	Temperature Range	-40°C to +85°C	-40°C to +105C
Sensor	Type	10K NTC	10K NTC
	Location	Internal	Fixed external probe
	Response Time ³	10 min to 90% (water)	Less than 10 secs
	Accuracy	±0.5°C From 0°C to 50°C	See data sheet
	Resolution	0.02°C or better	0.02°C or better

*Battery user replacable

[†]Factory replaceable

³ Functional Range describes the range over which the logger will function, not necessarily the sensor range over which it will record.

Required & Related Products



ACS-3030



ACS-3020

Software	SWCD-0040	SWCD-0040
Download Pad	ACS-3020 or ACS-3030	ACS-3020 or ACS-3030

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
ACS-3020	Tinytag Pad base station - Serial Connection	35.00
ACS-3030	Tinytag Pad base station - USB connection	35.00

08 Data Monitoring & Recording

Tinytag Ultra 2

-40°C to +85°C
Temperature Logger

-40°C to +125°C
Temperature Logger



Housed in a lightweight splash proof case (IP54) Ultras are designed primarily for indoor use but can be used outdoors if appropriately protected with, for example, a Stephenson Screen.



The Tinytag Ultra 2 data loggers are ideally suited to monitor interior applications where there is little or no moisture.

Tinytag Ultra 2 data loggers have a high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

Model	TGU-4017	TGU-4020	
List Price £	69.00	69.00	
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	32000	32000
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, min, max	Actual, min, max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life	1 year minimum	1 year minimum

TGU-4017

The TGU-4017 is a self contained temperature recorder.

TGU-4020

The TGU-4020 uses an external probe (not included) to record temperature in awkward to reach areas or applications where a fast time response is required.

Physical	Height	72mm/2.83"	72mm/2.83"
	Width	60mm/2.36"	60mm/2.36"
	Depth	33mm/1.30"	33mm/1.30"
	IP Rating	IP54 (Splashproof)	IP54 (Splashproof)
	Functional Range ¹	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
	Weight	55g / 1.94oz approx.	55g / 1.94oz approx.

Sensor	Temperature Range	-40°C to +85°C (-40°F to +185°F)	-40°C to +125°C (-40°F to +257°F)
	Type	10K NTC	10K NTC
	Location	Internal	External Probe
	Response Time	20 min to 90% FSD (air)	Probe dependant
	Accuracy	See Data sheet for graph	0.2°C, -40°C to 45°C
	Resolution	0.01°C or better	0.01°C or better
	Temp. Stability		0.01°C/°C change from ambient (25°C)

¹ Functional Range describes the range over which the logger will function, not the sensor range over which it will record.

Required & Related Products



CAB-0007



CAB-0007-USB



PB-5001-1M5/3M/5M

Probes		PB-5001-1M5/3M/5M PB-5002-1M5/3M/5M PB-5003-1M5
Software	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 CAB-0007-USB	CAB-0007 CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
PB-5001-1M5	Standard thermistor probe 1.5m cable	35.00
PB-5001-3M	Standard thermistor probe 3.0m cable	45.00
PB-5001-5M	Standard thermistor probe 5.0m cable	55.00
PB-5002-1M5	Fast response thermistor probe 1.5m cable	35.00
PB-5002-3M	Fast response thermistor probe 3.0m cable	45.00
PB-5002-5M	Fast response thermistor probe 5.0m cable	55.00
PB-5003-1M5	Surface thermistor probe 1.5m cable	45.00
SER-9520	Tinytag Ultra/ Ultra2 / Ultra 2K Service Kit	5.00



-25°C to +85°C
0.. 95% RH
Temperature/
Humidity Logger

-40°C to +85°C
-40°C to +125°C
Temperature/
Temperature Logger

Housed in a lightweight splash proof case (IP54) Ultras are designed primarily for indoor use but can be used outdoors if appropriately protected with, for example, a Stephenson Screen.



The Tinytag Ultra 2 data loggers are ideally suited to monitor interior applications where there is little or no moisture.

Tinytag Ultra 2 data loggers have a high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

TGU-4500

The TGU-4500 is a self contained temperature and humidity recorder.

TGU-4510

The TGU-4510 has an integral sensor and a connection for an external probe (not included) that makes the unit ideal for comparing ambient and process conditions.

	Model	TGU-4500	TGU-4510
	List Price £	99.00	99.00
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	32000	32000
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, min, max	Actual, min, max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
Alarms	Two fully programmable Latchable	Two fully programmable Latchable	
Battery life	1 year minimum	1 year minimum	

	Height	72mm/2.83"	72mm/2.83"
Physical	Width	60mm/2.36"	60mm/2.36"
	Depth	33mm/1.30"	33mm/1.30"
	IP Rating	IP53 (Splashproof)	IP53 (Splashproof)
	Functional Range ¹	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
	Weight	55g / 1.94oz approx.	55g / 1.94oz approx.

	Temperature Range	-25°C to +85°C (-13°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
Sensors	Type	10K NTC	10K NTC
	Location	Internal	Internal
	Response Time	20 min to 90% FSD (air)	20 min to 90% FSD (air)
	Accuracy	See Data sheet for graph	See Data sheet for graph
	Resolution	0.01°C or better	0.01°C or better
	Reading Range	0.. 95% RH	-40°C to +125°C
	Type	Capacitive	10K NTC
	Location	Externally mounted	External Probe
	Response Time	10 sec to 90%	Probe dependant
	Accuracy	±3.0% RH at 25°C	±0.2°C From -40°C to 45°C
Stability		0.01°C/°C change from 25°C	
Resolution	0.3% RH or better	0.01°C or better	

¹ Functional Range describes the range over which the logger will function, not the sensor range over which it will record.

Required & Related Products

Probes		PB-5001-1M5/3M/5M PB-5002-1M5/3M/5M PB-5003-1M5
Software	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 CAB-0007-USB	CAB-0007 CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
PB-5001-1M5	Standard thermistor probe 1.5m cable	35.00
PB-5001-3M	Standard thermistor probe 3.0m cable	45.00
PB-5001-5M	Standard thermistor probe 5.0m cable	55.00
PB-5002-1M5	Fast response thermistor probe 1.5m cable	35.00
PB-5002-3M	Fast response thermistor probe 3.0m cable	45.00
PB-5002-5M	Fast response thermistor probe 5.0m cable	55.00
PB-5003-1M5	Surface Thermistor probe 1.5m cable	45.00
SER-9520	Tinytag Ultra/ Ultra2 / Ultra 2K Service Kit	5.00

08 Data Monitoring & Recording

Tinytag Plus



0 to 5g (49m/s²)
High Sensitivity
Shock Logger

0 to 100g (980m/s²)
Shock Logger

0 to 50mm/s
Vibration Logger

The Tinytag Plus shock and vibration data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.



The workhorse of the Gemini range the Tinytag Plus data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.

TGP-0605

The TGP-0605 measures low level impacts and can be used for machine condition monitoring and the monitoring expensive and/or fragile shipments.

TGP-0610

The shock logger TGP-0610 measures impacts and can be used for machine condition monitoring and the monitoring expensive and/or fragile shipments.

TGP-0650

The TGP-0650 measures vibration and can be used for machine condition monitoring and the monitoring expensive and/or fragile shipments.

	Model	TGP-0605	TGP-0610	TGP-0650
	List Price £	235.00	235.00	235.00
Features	Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
	No. of Readings	16000	16000	16000
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Maximum	Maximum	Actual, min, max
	Logging interval	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life	1 year minimum	1 year minimum	1 year minimum

	Height	34mm/1.34"	34mm/1.34"	34mm/1.34"
Physical	Width	73mm/2.9"	73mm/2.9"	73mm/2.9"
	Depth	68mm/2.68"	68mm/2.68"	68mm/2.68"
	IP Rating ¹	IP68 (Waterproof)	IP68 (Waterproof)	IP68 (Waterproof)
	Functional Range ²	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
	Weight	140g / 4.94oz approx.	140g / 4.94oz approx.	140g / 4.94oz approx.

	Reading Range	0 to 5g (49m/s ²)	0 to 100g (980m/s ²)	0 to 50mm/s
Readings	Type	Piezo electric	Piezo electric	Piezo electric
	Location	Internal	Internal	Internal
	Accuracy*	±5% reading +0.02g	±5% reading +0.02g	±10% reading +0.02mm/s (From 1 to 40 mm/s)
	Linearity	±1% FSD	±1% FSD	
	Frequency Response			20Hz to 1kHz
	Resolution	0.02g (0.2m/s ²)	0.38g (3.8m/s ²)	0.2mm/s

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

* The accuracy figure stated is based on shocks approximated by a half sine wave of lengths 2ms to 20ms. The logger is sensitive to shocks either slower or faster than this range.

Required & Related Products



CAB-0007



CAB-0007-USB

Data Sheets available from www.tinytag.info

Software	SWCD-0040	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 CAB-0007-USB	CAB-0007 CAB-0007-USB	CAB-0007 CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
SER-9530	Tinytag Plus / Plus 2 / IS Service Kit	5.00



**-40°C to +85°C
Temperature Logger**

**-40°C to +125°C
Temperature Logger**

**-50°C to +300/600°C
Temperature Logger**

The workhorse of the Gemini range the Tinytag Plus data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.



Tinytag Plus 2 data loggers have a high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

TGP-4017

The TGP-4017 is a self contained temperature recorder.

TGP-4020

The TGP-4020 uses an external probe (not included) to record temperature in awkward to reach areas or applications where a fast time response is required.

TGP-4104

The TGP-4104 uses an external probe (not included) to record in high temperature applications.

A **3-Wire PT100** probe for use with the Tinytag Plus 2 TGP-4104 data logger.

With a moulded handle and connector this probe is suitable for use in damp or even submerged applications.

This general purpose probe is used in a wide variety of high temperature applications.



	Model	TGP-4017	TGP-4020	TGP-4104
	List Price £	95.00	95.00	105.00
Features	Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
	No. of Readings	32000	32000	32000
	Triggered Start	Magnetic Switch	Magnetic Switch	Magnetic Switch
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full	When Full	When Full
		After n Readings	After n Readings	After n Readings
	Reading types	Never (Wrap Around)	Never (Wrap Around)	Never (Wrap Around)
	Logging interval	Actual, Min, Max	Actual, Min, Max	Actual, Min, Max
	Offload	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
	Alarms	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
Battery life	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable	
		1 year minimum	1 year minimum	1 year minimum

	Height	34mm/1.34"	34mm/1.34"	34mm/1.34"
Physical	Width	51mm/2.05"	51mm/2.05"	51mm/2.05"
	Depth	80mm/3.15"	80mm/3.15"	80mm/3.15"
	IP Rating ¹	IP68 (Waterproof)	IP68 (Waterproof)	IP68 (Waterproof)
	Functional Range ²	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
	Weight	140g / 4.94oz approx.	110g / 3.9oz approx.	110g / 3.9oz approx.

	Temperature Range	-40°C to +85°C (-40°F to +185°F)	-40°C to +125°C (-40°F to +257°F)	-50°C to +300/600°C (-58°F to +572°F)
Sensor	Type	10K NTC	10K NTC	3-Wire PT100
	Location	Internal	External Probe	External Probe
	Response Time	25min to 90% FSD (air)	Sensor dependant	Sensor dependant
	Accuracy	See Data sheet for graph	±0.2°C, -40°C to 45°C	±0.6°C at 0°C, ±1.02°C at 300°C
	Resolution	0.01°C or better	0.02°C or better	0.02°C or better
	Temp. Stability		0.01°C/°C change from 25°C	0.015°C/°C change from 25°C

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products

Probes		PB-5001-1M5/3M/5M PB-5002-1M5/3M/5M PB-5003-1M5	PB-6005-1M5/3M (300°C) PM-6006-1M5/3M (600°C)
Software	SWCD-0040	SWCD-0040	SWCD-0040
Download Cable	CAB-0007/ CAB-0007-USB	CAB-0007/ CAB-0007-USB	CAB-0007/ CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
PB-5001-1M5	Standard thermistor probe 1.5m cable	35.00
PB-5001-3M	Standard thermistor probe 3.0m cable	45.00
PB-5001-5M	Standard thermistor probe 5.0m cable	55.00
PB-5002-1M5	Fast response thermistor probe 1.5m cable	35.00
PB-5002-3M	Fast response thermistor probe 3.0m cable	45.00
PB-5002-5M	Fast response thermistor probe 5.0m cable	55.00
PB-5003-1M5	Surface Thermistor probe 1.5m cable	45.00
PB-6005-1M5	Standard 3-wire PT100 probe 1.5m cable	40.00
PB-6005-3M	Standard 3-wire PT100 probe 3.0m cable	60.00
PB-6006-1M5	High temperature 3-wire PT100 probe 1.5m cable	40.00
PB-6006-3M	High temperature 3-wire PT100 probe 3m cable	60.00
SER-9530	Tinytag Plus / Plus 2 / IS Service Kit	5.00
ACS-6000	Trigger Start Magnet	5.00

08 Data Monitoring & Recording

Tinytag Plus 2

-200°C to +100°C
Temperature Logger

-25°C to +85°C
0% to 100% RH
Temperature/
Humidity Logger

-25°C to +85°C
-25°C to +125°C
Dual Channel Int/Ext
Temperature Logger



The workhorse of the Gemini range the Tinytag Plus data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.



The workhorse of the Gemini range the Tinytag Plus 2 data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.

Tinytag Plus 2 data loggers have a high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

	Model	TGP-4204	TGP-4500	TGP-4510
	List Price £	105.00	150.00	150.00
Features	Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
	No. of Readings	32000	32000	32000
	Triggered Start	Magnetic Switch	Magnetic Switch	Magnetic Switch
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full	When Full	When Full
		After n Readings Never (Wrap Around)	After n Readings Never (Wrap Around)	After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable
Battery life	1 year minimum	1 year minimum	1 year minimum	

TGP-4204

The TGP-4204 uses an external probe (not included) to record in cryogenic applications.

TGP-4500

The TGP-4500 is a self contained temperature and humidity recorder.

TGP-4510

The TGP-4510 has an integral sensor and a connection for an external probe (not included) that makes the unit ideal for comparing ambient and process conditions.

	Height	Width	Depth	IP Rating ¹	Functional Range ²	Weight
Physical	34mm/1.34"	51mm/2.05"	80mm/3.15"	IP68 (Waterproof)	-40°C to +85°C (-40°F to +185°F)	110g / 3.9oz approx.
	34mm/1.34"	57mm/2.25"	80mm/3.15"	IP68 (Waterproof)	-40°C to +85°C (-40°F to +185°F)	110g / 3.9oz approx.
	34mm/1.34"	59mm/2.32"	80mm/3.15"	IP68 (Waterproof)	-40°C to +85°C (-40°F to +185°F)	110g / 3.9oz approx.

	Temperature Range	Type	Location	Response Time	Accuracy	Resolution	
Sensor	-25°C to +85°C (-13°F to +185°F)	10K NTC	Internal	25 min to 95% FSD (air)	See data sheet for graph	0.01°C or better	
	-40°C to +85°C (-40°F to +185°F)	10K NTC	Internal	25 min to 95% FSD (air)	See data sheet for graph	0.01°C or better	
	Reading Range	-200°C to +100°C (-328°F to +212°F)	0% to 100% RH	-40°C to +125°C (-58°F to +572°F)			
	Type	3-Wire PT1000	Capacitive	10K NTC			
	Location	External Probe	Externally mounted	External Probe			
	Response Time	Sensor dependant	10 seconds to 90%	Sensor dependant			
	Accuracy	±0.6°C at 0°C, ±0.27°C at -200°C	±3.0% at 25°C	±0.2°C, -40°C to +45°C			
	Resolution	0.01°C or better	0.02°C or better	0.02°C or better			
	Temp. Stability	0.01°C/°C change from 25°C	0.01°C/°C change from 25°C	0.01°C/°C change from 25°C			

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products

Probes	PB-7002-1M5/3M		PB-5001-1M5/3M/5M PB-5002-1M5/3M/5M PB-5003-1M5
Software	SWCD-0040	SWCD-0040	SWCD-0040
Download Cable	CAB-0007	CAB-0007	CAB-0007

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
SER-9530	Tinytag Plus / Plus 2 / IS Service Kit	5.00
ACS-6000	Trigger Start Magnet	5.00
PB-7002-1M5	Standard 3-Wire PT1000 probe 1.5m cable	40.00
PB-7002-3M	Standard 3-Wire PT1000 probe 3.0m cable	60.00



-40°C to +125°C
-40°C to +125°C
Dual Temperature Logger

The workhorse of the Gemini range the Tinytag Plus data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.



The workhorse of the Gemini range the Tinytag Plus 2 data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.



PB-5001



PB-5002



PB-5003

	Model	TGP-4520
	List Price £	150.00
Features	Memory Type	Non-Volatile
	No. of Readings	32000
	Triggered Start	Magnetic Switch
	Delayed Start	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max
	Logging interval	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode
Alarms	Two fully programmable Latchable	
Battery life	1 year minimum	

Tinytag Plus 2 data loggers have a high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

TGP-4520

The TGP-4520 has two external probes (not included) and is ideal for comparing ambient and process conditions.

NTC Thermistor Features	
Fully moulded, waterproof (IP68 rated) design	
Food grade materials throughout	
150mm long sheath, 5mm in diameter	
1.5, 3 or 5m cable lengths available	
15 second response time (in water)	

	Physical	
	Height	34mm/1.34"
	Width	59mm/2.32"
	Depth	80mm/3.15"
	IP Rating ¹	IP68 (Waterproof)
	Functional Range ²	-40°C to +85°C (-40°F to +185°F)
	Weight	110g / 3.9oz approx.

External Sensors (10K NTC)	
Part No.	List
<i>Description</i>	
PB-5001-1M5	35.00
Standard thermistor probe 1.5m cable	
PB-5001-3M	45.00
Standard thermistor probe 3.0m cable	
PB-5001-5M	55.00
Standard thermistor probe 5.0m cable	
PB-5002-1M5	35.00
Fast response thermistor probe 1.5m cable	
PB-5002-3M	45.00
Fast response thermistor probe 3.0m cable	
PB-5002-5M	55.00
Fast response thermistor probe 5.0m cable	
PB-5003-1M5	45.00
Surface Thermistor probe 1.5m cable	



PB-7001

	Sensor	
	Temperature Range	-40°C to +125°C (-40°F to +257°F)
	Type	10K NTC
	Location	External Probe
	Response Time	Sensor dependant
	Accuracy	±0.2°C, -40°C to 45°C
	Resolution	0.02°C or better
	Temp. Stability	0.01°C/°C change from 25°C
	Reading Range	-40°C to +125°C (-40°F to +257°F)
	Type	10K NTC
	Location	External Probe
	Response Time	
	Accuracy	±0.2°C, -40°C to 45°C
	Resolution	0.02°C or better
	Temp. Stability	0.01°C/°C change from 25°C

PT1000 Features	
Fully moulded, waterproof (IP68 rated) design	
Food grade materials throughout	
150mm long sheath, 5mm in diameter	
1.5, 3 or 5m cable lengths available	
15 second response time (in water)	

Required & Related Products

Probes	PB-5001-1M5/3M/5M PB-5002-1M5/3M/5M PB-5003-1M5
Software	SWCD-0040
Download Cable	CAB-0007 CAB-0007-USB

External Sensors (PT1000)	
Part No.	Price £
<i>Description</i>	
PB-7001-1M5	40.00
Standard 3-wire PT1000 probe 1.5m cable	
PB-7001-3M	60.00
Standard 3-wire PT1000 probe 3.0m cable	
PB-7001-5M	70.00
Standard 3-wire PT1000 probe 5.0m cable	

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
SER-9530	Tinytag Plus / Plus 2 / IS Service Kit	5.00
ACS-6000	Trigger Start Magnet	5.00

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

08 Data Monitoring & Recording

Tinytag Plus IS



-40°C to +85°C
Temperature Logger

-40°C to +125°C
Temperature Logger

The Tinytag Plus Intrinsically Safe data loggers are an ATEX approved range of temperature and humidity recorders designed for use in hazardous areas.



	Model	TGIS-0017	TGIS-0020
	List Price £	155.00	215.00
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	16000	16000
	Triggered Start	Magnetic Switch	Magnetic Switch
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life	2 year minimum	2 year minimum

		34mm/1.34"	34mm/1.34"
Physical	Height	51mm2.05"	59mm2.05"
	Width	80mm/3.15"	80mm/3.15"
	Depth	IP68 (Waterproof)	IP68 (Waterproof)
	IP Rating ¹	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
	Functional Range ²	100g /3.5oz approx.	100g /3.5oz approx.
	Weight		

		-40°C to +85°C (-40°F to +185°F)	-40°C to +125°C (-40°F to +257°F)
Sensor	Temperature Range	10K NTC	10K NTC
	Type	Internal	External Probe
	Location	25 min to 90% FSD in air	Probe dependent
	Response Time	See Data sheet for graph	See Data sheet for graph
	Accuracy	0.01°C or better	10 bit
	Resolution		

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Data Sheets available from www.tinytag.info



CAB-0007



CAB-0007-USB

Required & Related Products

Sensor		PB-5008-1M5 (Supplied)
Software	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB

Approvals

Tinytag Intrinsically Safe data loggers are certified for use in hazardous areas to the following standard:



Eex ia IIC T4 (Ta=-30°C to 40°C)
Eex ia IIC T3 (Ta=-30°C to 75°C)

Certificate: Sira 03ATEX2325X

The loggers may be used in zones 0, 1 & 2 with flammable gases and vapours with apparatus groups IIA, IIB & IIC and with temperature classes T1, T2 & T3 (upto 75°C ambient) and T4 (upto 40°C ambient).

This equipment complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause any harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

TGIS-0017

The TGIS-0017 Intrinsically Safe Tinytag is an ATEX certified data logger for use in hazardous areas. The unit is robust and self contained, with a reputation for reliability.

This model is battery powered and measures temperature using a built-in sensor, providing cost effective environmental monitoring ideal for inaccessible locations.

Features include waterproof casing (rated IP68), two user-programmable alarms and multiple start/stop options. Data recorded by the TGIS-0017 is downloaded to PC via a cable; no expensive base station is required.

The Tinytag Explorer software provides a powerful, easy to use interface with the loggers, enabling visualisation of recorded data and the ability to set logging parameters.

TGIS-0020

The TGIS-0020 Intrinsically Safe Tinytag is an ATEX certified data logger for use in hazardous areas. The unit is robust and self contained, with a reputation for reliability.

Features include waterproof casing (rated IP68), two user-programmable alarms and multiple start/stop options. Data recorded by the TGIS-0020 is downloaded to PC via a cable; no expensive base station is required.

The Tinytag Explorer software provides a powerful, easy to use interface with the loggers, enabling visualisation of recorded data and the ability to set logging parameters.

This unit is supplied with a probe.

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
SER-9530	Tinytag Plus / Plus 2 / IS Service Kit	5.00
ACS-6000	Trigger Start Magnet	5.00



0% to 100% RH
Humidity Logger

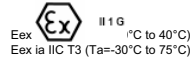
0% to 100% RH / -40°C to +85°C
Humidity / Temperature Logger
Dual Channel

The Tinytag Plus Intrinsically Safe data loggers are an ATEX approved range of temperature and humidity recorders designed for use in hazardous areas.



Approvals

Tinytag Intrinsically Safe data loggers are certified for use in hazardous areas to the following standard:



Certificate: Sira 03ATEX2325X

The loggers may be used in zones 0, 1 & 2 with flammable gases and vapours with apparatus groups IIA, IIB & IIC and with temperature classes T1, T2 & T3 (upto 75°C ambient) and T4 (upto 40°C ambient).

This equipment complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause any harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

TGIS-0304

The TGIS-0304 Intrinsically Safe Tinytag is an ATEX certified data logger for use in hazardous areas. The unit is robust and self contained, with a reputation for reliability.

This model is battery powered and measures humidity using a built-in sensor, providing cost effective environmental monitoring ideal for inaccessible locations.

Features include waterproof casing (rated IP68), two user-programmable alarms and multiple start/stop options. Data recorded by the TGIS-0304 is downloaded to PC via a cable; no expensive base station is required.

The Tinytag Explorer software provides a powerful, easy to use interface with the loggers, enabling visualisation of recorded data and the ability to set logging parameters.

TGIS-1580

The TGIS-1580 Intrinsically Safe Tinytag is an ATEX certified data logger for use in hazardous areas. The unit is robust and self contained, with a reputation for reliability.

This model is battery powered and measures both temperature and humidity using built-in sensors, providing cost effective environmental monitoring ideal for inaccessible locations.

Features include waterproof casing (rated IP68), two user-programmable alarms and multiple start/stop options. Data recorded by the TGIS-1580 is downloaded to PC via a cable; no expensive base station is required.

The Tinytag Explorer software provides a powerful, easy to use interface with the loggers, enabling visualisation of recorded data and the ability to set logging parameters.

Model	TGIS-0304	TGIS-1580	
List Price £	190.00	250.00	
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	16000	32000
	Triggered Start	Magnetic Switch	Magnetic Switch
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life	2 year minimum	2 year minimum

Physical	TGIS-0304	TGIS-1580
Height	34mm/1.34"	34mm/1.34"
Width	57mm/2.25"	59mm/2.05"
Depth	80mm/3.15"	80mm/3.15"
IP Rating ¹	IP68 (Waterproof)	IP68 (Waterproof)
Functional Range ²	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
Weight	100g /3.5oz approx.	100g /3.5oz approx.

Sensor	TGIS-0304	TGIS-1580
Reading Range	0% to 100% RH	-40°C to +85°C (-40°F to +185°F)
Type	Capacitive	10K NTC
Location	Externally	Internal
Response Time	10 sec to 90% FSD in air	25 min to 90% FSD in air
Accuracy	±3.0%at 25°C	See data sheet for graph
Resolution	Typically 0.5% RH	See data sheet for graph

Sensor	TGIS-0304	TGIS-1580
Reading Range	0% to 100% RH	0% to 100% RH
Type	Capacitive	Capacitive
Location	Externally mounted	Externally mounted
Response Time	10 sec to 90% FSD in air	10 sec to 90% FSD in air
Accuracy	±3.0%at 25°C	±3.0%at 25°C
Resolution	Typically 0.5% RH	Typically 0.5% RH

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Data Sheets available from www.tinytag.info

Required & Related Products

Software	TGIS-0304	TGIS-1580
Download Cable	SWCD-0040 CAB-0007 or CAB-0007-USB	SWCD-0040 CAB-0007 or CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
SER-9530	Tinytag Plus / Plus 2 / IS Service Kit	5.00
ACS-6000	Trigger Start Magnet	5.00

08 Data Monitoring & Recording

Tinytag Plus Re-Ed

OEM Voltage Logger
0.. 2.5/10/25V

Voltage Logger
0.. 2.5/10/25V

XP Voltage Logger
0.. 2.5/10/25V



A range of data loggers that record voltage, current and count inputs that can be connected to a variety of sensors to make specialist data loggers for a diverse array of applications.



	Model	TGPR-0700	TGPR-0704	TGPR-0705
	List Price £	70.00	105.00	210.00
Features	Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
	No. of Readings	16000	16000	16000
	Triggered Start		Magnetic Switch	Magnetic Switch
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life*	Uptp 5 years	Uptp 5 years	Uptp 5 years
XP Battery Life	-	-	12V, 50mA Typ.	
XP Battery Capacity	-	-	2700mAh Typ.	

* It is recommended that the battery is changed every two years.

	Height	Width	Depth	IP Rating ¹	Functional Range ²	Weight
Physical	17.6mm	36.4mm	41.8mm	None	-40°C to +85°C (-40°F to +185°F)	N/A
	34mm/1.34"	59mm/2.05"	80mm/3.15"	IP68 (Waterproof) ¹	-40°C to +85°C (-40°F to +185°F)	110g /3.9oz approx.
	75mm/2.95"	75mm/2.95"	110mm/4.85"	IP65 (Splashproof)	-20°C to +50°C (-4°F to +122°F)	700g /24.7oz approx.

0.. 2.5V Range			
Maximum Input	3.5V	3.5V	3.5V
Max. input current	±1uA (typ. ±0.4uA)	±1uA (typ. ±0.4uA)	±1uA (typ. ±0.4uA)
Resolution	10mV	10mV	10mV
Accuracy	±10mV ±0.5% reading	±10mV ±0.5% reading	±10mV ±0.5% reading
Data Sheets available from www.tinytag.info			
0.. 10V Range			
Maximum Input	14V	14V	14V
Input Impedance	400 kΩ	400 kΩ	400 kΩ
Resolution	40mV	40mV	40mV
Accuracy	±40mV ±1% reading	±40mV ±1% reading	±40mV ±1% reading
0.. 25V Range			
Maximum Input	35V	35V	35V
Input Impedance	1 MΩ	1 MΩ	1 MΩ
Resolution	100mV	100mV	100mV
Accuracy	±100mV ±1% reading	±100mV ±1% reading	±100mV ±1% reading

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products

Input		CAB-3239 ACS-9703	CAB-3239 ACS-9703
Software	SWCD-0040	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB

TGPR-0700

A voltage input data logger that is supplied un-cased so that it can be built into custom applications.

The TGPR-0700 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

TGPR-0704

A voltage input data logger that is housed in a robust, waterproof (IP68) rated case.

The TGPR-0704 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

TGPR-0705

A voltage input data logger that has an internal battery pack, which can be used to power an external sensor, this unit is housed in a robust, splash-proof case.

The TGPR-0705 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
CAB-3239	Voltage cable input lead 1.0m	15.00
ACS-9703	5-Pin Plug Connector	15.00
ACS-6000	Trigger Start Magnet	5.00
SER-9530	Tinytag Plus/ I.S. Service Kit including battery, seal and silica gel pack.	5.00
SER-9540	Tinytag XP Service Kit including battery, seal and silica gel pack.	15.00

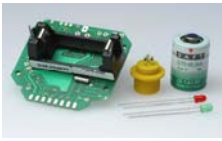


OEM Current Logger
0.. 20mA

Current Logger
0.. 20mA

XP Current Logger
0.. 20mA

Available as a standard data logger supplied in a robust and water-proof case; uncased for OEM users to build into their own equipment and as XP units that are capable of powering an external sensor.



TGPR-0800

A current input data logger that is supplied un-cased so that it can be built into custom applications.

The TGPR-0800 can be used to record the output from a number of industry standard 4-20mA sensors.

Common applications include pressure and flow rate monitoring.

TGPR-0804

A current input data logger that is housed in a robust, waterproof (IP68) rated case.

The TGPR-0804 can be used to record the output from a number of industry standard 4-20mA sensors.

Common applications include pressure and flow rate monitoring.

TGPR-0805

A current input data logger that has an internal battery pack, which can be used to power an external sensor, this unit is housed in a robust, splash-proof case.

The TGPR-0805 can be used to record the output from a number of industry standard 4-20mA sensors.

Common applications include pressure and flow rate monitoring.

Model	TGPR-0800	TGPR-0804	TGPR-0805
List Price £	70.00	105.00	210.00
Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
No. of Readings	16000	16000	16000
Triggered Start		Magnetic Switch	Magnetic Switch
Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
Reading types	Actual, Min, Max	Actual, Min, Max	Actual, Min, Max
Logging interval	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
Alarms	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable
Battery life*	Uptp 5 years	Uptp 5 years	Uptp 5 years
XP Battery Life	-	-	12V, 50mA Typ.
XP Battery Capacity	-	-	2700mAh Typ.

* It is recommended that the battery is changed every two years.

Physical	TGPR-0800	TGPR-0804	TGPR-0805
Height	17.6mm	34mm/1.34"	75mm/2.95"
Width	36.4mm	59mm/2.05"	75mm/2.95"
Depth	41.8mm	80mm/3.15"	110mm/4.85"
IP Rating¹	None	IP68 (Waterproof) ¹	IP65 (Splashproof)
Functional Range²	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)	-20°C to +50°C (-4°F to +122°F)
Weight	N/A	110g /3.9oz approx.	700g /24.7oz approx.

Input	TGPR-0800	TGPR-0804	TGPR-0805
Range	0.. 20mA	0.. 20mA	0.. 20mA
Maximum Input	50mA	50mA	50mA
Input impedance	10 Ω	10 Ω	10 Ω
Resolution	0.08mA	0.08mA	0.08mA
Accuracy	±0.1mA ±0.6% reading	±0.1mA ±0.6% reading	±0.1mA ±0.6% reading

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products



CAB-3239



CAB-3233



CAB-3246



ACS-9700



ACS-9703

Input		CAB-3246 ACS-9700	CAB-3239 ACS-9703
Software	SWCD-0040	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
CAB-3239	Voltage/XP cable input lead 1.0m	15.00
CAB-3246	Current/millivolt/count cable input lead 1.0m	15.00
ACS-9700	2-Pin Plug Connector	15.00
ACS-9703	5-pin Plug Connector	15.00
ACS-6000	Trigger Start Magnet	5.00
SER-9530	Tinytag Plus/ I.S. Service Kit including battery, seal and silica gel pack.	5.00
SER-9540	Tinytag XP Service Kit including battery, seal and silica gel pack.	15.00

08 Data Monitoring & Recording

Tinytag Plus Re-Ed



OEM millivolt Logger
0.. 200mV

Millivolt Logger
0.. 200mV

XP millivolt Logger
0.. 200mV

A range of data loggers that record voltage, current and count inputs that can be connected to a variety of sensors to make specialist data loggers for a diverse array of applications.



Model	TGPR-1000	TGPR-1001	TGPR-1002
List Price £	70.00	105.00	210.00
Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
No. of Readings	16000	16000	16000
Triggered Start		Magnetic Switch	Magnetic Switch
Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
Reading types	Actual, Min, Max	Actual, Min, Max	Actual, Min, Max
Logging interval	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
Alarms	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable
Battery life*	Uptp 5 years	Uptp 5 years	Uptp 5 years
XP Battery Life	-	-	12V, 50mA Typ.
XP Battery Capacity	-	-	2700mAh Typ.

* It is recommended that the battery is changed every two years.

Physical	TGPR-1000	TGPR-1001	TGPR-1002
Height	17.6mm	34mm/1.34"	75mm/2.95"
Width	36.4mm	59mm/2.05"	75mm/2.95"
Depth	41.8mm	80mm/3.15"	110mm/4.85"
IP Rating¹	None	IP68 (Waterproof) ¹	IP65 (Splashproof)
Functional Range²	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)	-20°C to +50°C (-4°F to +122°F)
Weight	N/A	110g /3.9oz approx.	700g /24.7oz approx.

Input	TGPR-1000	TGPR-1001	TGPR-1002
Range	0.. 200mV	0.. 200mV	0.. 200mV
Maximum Input	500mV	500mV	500mV
Input impedance	>10 MΩ	>10 MΩ	>10 MΩ
Resolution	0.8mV	0.8mV	0.8mV
Accuracy	±1mV ±0.5% reading	±1mV ±0.5% reading	±1mV ±0.5% reading

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products



CAB-3239



CAB-3233



CAB-3246



ACS-9700

ACS-9703

Input		CAB-3246 ACS-9700	CAB-3239 ACS-9703
Software	SWCD-0040	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 CAB-0007-USB	CAB-0007 CAB-0007-USB	CAB-0007 CAB-0007-USB

TGPR-1000

A milli-volt input data logger that is supplied un-cased so that it can be built into custom applications.

The TGPR-1000 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

TGPR-1001

A milli-volt input data logger that is housed in a robust, waterproof (IP68) rated case.

The TGPR-1001 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

TGPR-1002

A milli-volt input data logger that has an internal battery pack, which can be used to power an external sensor, this unit is housed in a robust, splash-proof case.

The TGPR-1002 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
CAB-3239	Voltage/XP cable input lead 1.0m	15.00
CAB-3246	Current/millivolt/count cable input lead 1.0m	15.00
ACS-9700	2-Pin Plug Connector	15.00
ACS-9703	5-pin Plug Connector	15.00
ACS-6000	Trigger Start Magnet	5.00
SER-9530	Tinytag Plus/ I.S. Service Kit including battery, seal and silica gel pack.	5.00
SER-9540	Tinytag XP Service Kit including battery, seal and silica gel pack.	15.00



OEM Count Logger
Digital or Volt-free Switch
0.. 255 counts/intervals

Count Logger
Digital or Volt-free Switch
0.. 255 counts/intervals

Available as a standard data logger supplied in a robust and water-proof case; uncased for OEM users to build into their own equipment and as XP units that are capable of powering an external sensor.



TGPR-1200

A count input data logger that is supplied un-cased so that it can be built into custom applications.

Common applications include flow rate and quantity monitoring.

TGPR-1201

A count input data logger that is housed in a robust, waterproof (IP68) rated case.

Common applications include flow rate and quantity monitoring.

	Model	TGPR-1200	TGPR-1201
	List Price £	70.00	105.00
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	16000	16000
	Triggered Start		Magnetic Switch
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life*	Uptp 5 years	Uptp 5 years

* It is recommended that the battery is changed every two years.

	Physical	TGPR-1200	TGPR-1201
	Height	17.6mm	34mm/1.34"
	Width	36.4mm	59mm/2.05"
	Depth	41.8mm	80mm/3.15"
	IP Rating ¹	None	IP68 (Waterproof) ¹
	Functional Range ²	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
	Weight	N/A	110g /3.9oz approx.

	Input	TGPR-1200	TGPR-1201
	Range	0.. 255 counts/intervals	0.. 255 counts/intervals
	Maximum frequency	50 counts/sec	50 counts/sec
	'Divide by' Counter	1 to 255	1 to 255
	Input Type	Digital or Volt-free Switch	Digital or Volt-free Switch
	Maximum Error	±Divisor/2	±Divisor/2

	Digital	TGPR-1200	TGPR-1201
	Low Level	-0.5V to +1V	-0.5V to +1V
	High Level	2.5V to 10V	2.5V to 10V
	Min Pulse Width	150µs (at 5V)	150µs (at 5V)
	Min Pulse Separation	150µs (at 5V)	150µs (at 5V)
	Edge Detection	High - Low Transition	High - Low Transition

	Contact	TGPR-1200	TGPR-1201
	Type	Normally Open (w/ minimal debounce)	Normally Open (w/ minimal debounce)
	Min Closed Time	150µs	150µs
	Min Open time	500µs	500µs
	Edge Detection	Open to Close	Open to Close

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products

Input		CAB-3246 ACS-9700
Software	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
CAB-3246	Current/millivolt/count cable input lead 1.0m	15.00
ACS-9700	2-Pin Plug Connector	15.00
ACS-6000	Trigger Start Magnet	5.00
SER-9530	Tinytag Plus/ I.S. Service Kit including battery, seal and silica gel pack.	5.00

08 Data Monitoring & Recording

Tinytag Instrument

Temperature Logger External K-Type -50°C to +600°C



Using inductive technology for the fast wireless downloading of data, these robust data loggers have a high reading resolution and accuracy.



Using inductive technology for the fast wireless downloading of data, this IP68 logger has a high reading resolution and accuracy.

TGI-3250

The TGI-3250 is the most accurate high temperature data logger in the Tinytag range.

	Model	TGI-3250
	List Price £	105.00
Features	Memory Type	32K (Non-Volatile)
	No. of Readings	16000
	Triggered Start	
	Resolution	12 bit
	Delayed Start	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max
	Logging interval	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable
	Battery life*	Upto 3 years
	Offload Speed	30 sec approx.
	Offload Method	Inductive
Logger Accuracy	±2°C from -10°C to 500°C ±4°C from 500°C to 1200°C	

* It is recommended that the battery is changed every two years.

	Physical	
Physical	Height	82mm/3.3"
	Width	65mm/2.6"
	Depth	40mm/1.6"
	IP Rating	IP20 Rugged
	Functional Range ²	-40°C to +85°C (-40°F to +185°F)
	Mounting Holes	4.2mm/0.16" Ø 70mm/2.8" Separation

¹ The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m(50ft)

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

	Sensor	
Sensor	Range	-10°C to +1200°C -14°F to +2192°F
	Type	K Type TC
	Location	External
	Response Time	Probe Dependant
	Accuracy	Probe Dependant
	Resolution	<0.4°C -10°C to 1200°C

Required & Related Products



ACS-9750

Probe Connector	ACS-9750
Software	SWCD-0040
Download Pad	ASC-3020 or ASC-3030

Part No.		List Price £
SWCD-0040	Tinytag Explorer Software	49.00
ACS-3020	Tinytag Pad base station - Serial Connection	35.00
ACS-3030	Tinytag Pad base station - USB connection	35.00
ACS-9750	K-Type connection to suit any 2-wire K-type thermocouple	10.00
SER-9560	Tinytag instrument Service Kit including battery	15.00



Temperature Logger
External NTC
-40°C to +125°C



Temperature Logger
Internal NTC
-25°C to +50°C



The Tinyview is equipped with an LCD display to provide instant indication of temperature, humidity and alarm conditions.

TV-4020

The TV-4020 is equipped with an LCD display to provide an instant indication of the temperature and alarm conditions.

The logger is made with food grade materials and is most commonly used in fridges and chill cabinets.

TV-4050

The TV-4050 is equipped with an LCD display to provide an instant indication of the temperature and alarm conditions.

The logger is made with food grade materials and is most commonly used in fridges and chill cabinets.

	Model	TV-4020	TV-4050
	List Price £	110.00	110.00
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	30000	30000
	Triggered Start	Magnetic Switch	Magnetic Switch
	Display	4 Digits + Indicators	4 Digits + Indicators
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life*	Over 1 year	Over 1 year
Display Resolution	0.5°C	0.5°C	

* It is recommended that the battery is changed every year.

	TV-4020	TV-4050
Physical	Diameter	60mm/2.36"
	Length	84mm/3.31"
	Width	76mm/2.99"
	Depth	35mm/1.38"
	IP Rating	IP65 Splashproof
	Functional Range ²	-30°C to +50°C
	Case Material	Noryl
	Weight	85g / 3oz

	TV-4020	TV-4050
Sensor	Range	-40°C to +125°C
	Type	10K NTC
	Location	External Probe
	Response Time	Probe Dependant
	Accuracy	See Data sheet graph
	Resolution	See Data sheet graph

¹ The IP rating is valid only when the unit's connector cap is fitted

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Probes	PB-5001-1M5/3M/5M PB-5002-1M5/3M/5M PB-5003-1M5
Software	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
PB-5001-1M5	Standard thermistor probe 1.5m cable	35.00
PB-5001-3M	Standard thermistor probe 3.0m cable	45.00
PB-5001-5M	Standard thermistor probe 5.0m cable	55.00
PB-5002-1M5	Fast response thermistor probe 1.5m cable	35.00
PB-5002-3M	Fast response thermistor probe 3.0m cable	45.00
PB-5002-5M	Fast response thermistor probe 5.0m cable	55.00
PB-5003-1M5	Surface Thermistor probe 1.5m cable	45.00

08 Data Monitoring & Recording

Tinyview Plus



Temperature Logger
Integral NTC Stab Probe
-30°C to +50°C

Temperature Logger
External 2-Wire PT100
-50°C to +300°C

Temperature Logger
External 2-Wire PT1000
-200°C to +100°C

The loggers are made with food grade materials and are most commonly used in fridges and chill cabinets.



TV-4076

The TV-4076 is equipped with an LCD display to provide an instant indication of the temperature and alarm conditions.

The logger is made with food grade materials and is ideal for taking the internal temperature of foodstuffs.

TV-4104

The TV-4104 is equipped with an LCD display to provide an instant indication of the temperature and alarm conditions.

The logger is made with food grade materials and is most commonly used for high temperature monitoring.

TV-4204

The TV-4204 is equipped with an LCD display to provide an instant indication of the temperature and alarm conditions.

The logger is made with food grade materials and is most commonly used for cryogenic monitoring.

	TV-4076	TV-4104	TV-4204	
List Price £	130.00	110.00	110.00	
Features	Memory Type	Non-Volatile	Non-Volatile	Non-Volatile
	No. of Readings	30000	15000	15000
	Triggered Start	Magnetic Switch	Magnetic Switch	Magnetic Switch
	Display	4 Digits + Indicators	4 Digits + Indicators	4 Digits + Indicators
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life*	Over 1 year	Over 1 year	Over 1 year
Display Resolution	0.5°C	0.5°C	0.5°C	

* It is recommended that the battery is changed every year.

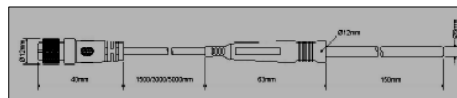
	TV-4076	TV-4104	TV-4204	
Physical	Diameter	60mm/2.36"	60mm/2.36"	60mm/2.36"
	Length	(incl. probe) 150mm/5.91"	84mm/3.31"	84mm/3.31"
	Width	76mm/2.99"	76mm/2.99"	76mm/2.99"
	Depth	35mm/1.38"	35mm/1.38"	35mm/1.38"
	IP Rating	IP65 Splashproof	IP65 Splashproof	IP65 Splashproof
	Functional Range²	-30°C to +70°C	0°C to +70°C	-30°C to +70°C
	Case Material	Noryl	Noryl	Noryl
	Weight	100g / 3.6oz	85g / 3oz	85g / 3oz

¹ The IP rating is valid only when the unit's connector cap is fitted

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

	TV-4076	TV-4104	TV-4204	
Sensor	Range	-30°C to +50°C	-50°C to +300°C	-200°C to +100°C
	Type	10K NTC	2-Wire PT100	PT1000
	Location	External Stab Probe	External Probe	External Probe
	Response Time		Probe Dependant	Probe Dependant
	Accuracy	See Data Sheet	See Data Sheet	See Data Sheet
Resolution	See Data Sheet	See Data Sheet	See Data Sheet	

Required & Related Products



Probes	PB-6001-1M5	PT-7001-1M5/3M/5M
Software	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB

Part No.	Description	List Price £
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
SWCD-0040	Tinytag Explorer Software	49.00
PB-6001-1M5	Standard 2-Wire PT100 probe 1.5m cable	40.00
PB-7001-1M5	Standard 2-Wire PT1000 probe 1.5m cable	40.00
PB-7001-3M	Standard 2-Wire PT1000 probe 3m cable	60.00
PB-7001-5M	Standard 2-Wire PT1000 probe 5m cable	70.00



Humidity / Temperature
Dual Channel
Internal RH / Internal NTC
0% to 100% RH / -25°C to +50°C

Humidity / Temperature
Dual Channel
Internal RH / Internal NTC
0% to 100% RH / -25°C to +50°C

Dual channel temperature and relative humidity Tinyview's are also supplied in grey cases for discrete monitoring in museums and art galleries.



TV-4500

The TV-4500 is equipped with an LCD display to provide instant indication of temperature, humidity and alarm conditions.

The logger is made with food grade materials and is most commonly used in fridges and chill cabinets.

TV-4501

The TV-4501 is equipped with an LCD display to provide instant indication of temperature, humidity and alarm conditions.

The unit is supplied in a grey case for discrete monitoring in museums and art galleries.

	TV-4500	TV-4501	
List Price £	165.00	165.00	
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	30000	30000
	Triggered Start	Magnetic Switch	Magnetic Switch
	Display	4 Digits + Indicators	4 Digits + Indicators
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life*	Over 1 year	Over 1 year
	Display Resolution	0.5% RH	0.5% RH

* It is recommended that the battery is changed every year.

	TV-4500	TV-4501	
Physical	Diameter	60mm/2.36"	60mm/2.36"
	Length	88mm/3.46"	84mm/3.31"
	Width	65mm/2.56"	76mm/2.99"
	Depth	35mm/1.38"	35mm/1.38"
	IP Rating	IP65 Splashproof	IP65 Splashproof
	Functional Range ²	-30°C to +70°C	-30°C to +70°C
	Case Material	Noryl	Noryl
Weight	85g / 3oz	85g / 3oz	

	TV-4500	TV-4501	
Sensor	Range	0% to 100% RH	0% to 100% RH
	Type	Capacitive	Capacitive
	Location	Integral	Integral
	Response Time	10 secs to 90% FSD in still air	10 secs to 90% FSD in still air
	Accuracy	±3% at 25°C	±3% at 25°C
	Resolution	Typically 0.5% RH	Typically 0.5% RH

	TV-4500	TV-4501	
Sensor	Range	-25°C to +50°C	-25°C to +50°C
	Type	10K NTC	10K NTC
	Location	Integral	Integral
	Response Time	10 mins to 90% FSD	10 mins to 90% FSD
	Accuracy	See Data Sheet	See Data Sheet
	Resolution	See Data Sheet	See Data Sheet

¹ The IP rating is valid only when the unit's connector cap is fitted

² Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

Required & Related Products



CAB-0007



CAB-0007-USB

Software	SWCD-0040	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB	CAB-0007 or CAB-0007-USB



Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
SER-9550	Tinyview Service Kit including battery, seal and silica gel pack.	5.00

08 Data Monitoring & Recording

Tinytag Instrument



Humidity / Temperature
Dual Channel
Internal RH / External NTC
0% to 100% RH / -25°C to +85°C

Humidity / Temperature
Dual Channel
Internal RH / External NTC
0% to 100% RH / -25°C to +85°C

Dual channel temperature and relative humidity Tinyview's are also supplied in grey cases for discrete monitoring in museums and art galleries.



TV-4505

The TV-4505 is equipped with an LCD display to provide instant indication of temperature, humidity and alarm conditions.

The logger is made with food grade materials and is most commonly used in fridges and chill cabinets.

TV-4506

The TV-4506 is equipped with an LCD display to provide instant indication of temperature, humidity and alarm conditions.

The unit is supplied in a grey case for discrete monitoring in museums and art galleries.

	TV-4505	TV-4506	
List Price £	180.00	180.00	
Features	Memory Type	Non-Volatile	Non-Volatile
	No. of Readings	15000 x 2	15000 x 2
	Triggered Start	Magnetic Switch	Magnetic Switch
	Display	4 Digits + Indicators	4 Digits + Indicators
	Delayed Start	Relative/Absolute upto 45 days	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max	Actual, Min, Max
	Logging interval	1 sec to 10 days	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable	Two fully programmable Latchable
	Battery life*	Over 1 year	Over 1 year
Display Resolution	0.5% RH / 0.5°C	0.5% RH / 0.5°C	

* It is recommended that the battery is changed every year.

Physical	TV-4505	TV-4506
Diameter	60mm/2.36"	60mm/2.36"
Length	84mm/3.31"	84mm/3.31"
Width	76mm/2.99"	76mm/2.99"
Depth	35mm/1.38"	35mm/1.38"
IP Rating	IP65 Splashproof	IP65 Splashproof
Functional Range ²	-30°C to +70°C	-30°C to +70°C
Case Material	Noryl	Noryl
Combined Weight	150g / 5.29oz	150g / 5.29oz

Sensor RH	TV-4505	TV-4506
Range	0% to 100% RH	0% to 100% RH
Type	Capacitive	Capacitive
Location	Integral	Integral
Response Time	5 secs to 90% FSD in still air	10 secs to 90% FSD in still air
Accuracy	±3% at 25°C	±3% at 25°C
Resolution	Typically 0.5% RH	Typically 0.5% RH

For additional technical specification see Data sheet @ www.geminidataloggers.com

Sensor T	TV-4505	TV-4506
Range	-25°C to +85°C	-25°C to +85°C
Type	10K NTC	10K NTC
Location	External	External
Response Time	3 mins to 90% FSD moving air	3 mins to 90% FSD moving air
Accuracy	See Data Sheet	See Data Sheet
Resolution	See Data Sheet	See Data Sheet

Physical	TV-4505	TV-4506
Operating Range ²	-40°C to +85°C	-40°C to +85°C
Length	70mm/2.76"	70mm/2.76"
Diameter	8mm/0.31"	8mm/0.31"
Cable Length	1.5m/59.06"	1.5m/59.06"

¹ The IP rating is valid only when the unit's connector cap is fitted

² Functional Range describes the range over which the logger will function, not the sensor range over which it will record.

Required & Related Products

Software	TV-4505	TV-4506
Download Cable	SWCD-0040 CAB-0007 or CAB-0007-USB	SWCD-0040 CAB-0007 or CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
ACS-6000	Trigger Start Magnet	10.00
SER-9550	Tinyview Service Kit including battery, seal and silica gel pack.	5.00



Temperature / Temperature
Dual Channel
External NTC / Internal NTC
-30°C to +50°C / -40°C to +125°C

The Tinyview is equipped with an LCD display to provide instant indication of temperature, humidity and alarm conditions.



TV-4510

The TV-1510 is equipped with an LCD display to provide an instant indication of the temperature and alarm conditions.

The logger is made with food grade materials and is most commonly used in fridges and chill cabinets.

This unit can be used to compare ambient and process conditions.

		TV-4510
List Price £		165.00
Features	Memory Type	Non-Volatile
	No. of Readings	30000
	Triggered Start	Magnetic Switch
	Display	4 Digits + Indicators
	Delayed Start	Relative/Absolute upto 45 days
	Stop options	When Full After n Readings Never (Wrap Around)
	Reading types	Actual, Min, Max
	Logging interval	1 sec to 10 days
	Offload	While stopped or while logging in minutes mode
	Alarms	Two fully programmable Latchable
	Battery life*	Over 1 year
	Display Resolution	0.5°C

* It is recommended that the battery is changed every year.

Physical	Diameter	60mm/2.36"
	Length	84mm/3.31"
	Width	76mm/2.99"
	Depth	35mm/1.38"
	IP Rating	IP68 Waterproof
	Functional Range²	-40°C to +85°C
	Case Material	Noryl
	Combined Weight	85g / 3oz

¹ The IP rating is valid only when the unit's connector cap is fitted

² Functional Range describes the range over which the logger will function, not the sensor range over which it will record.

Sensor Int. 1	Range	-30°C to +50°C
	Type	10K NTC
	Location	Integral
	Response Time	10 mins to 90% FSD moving air
	Accuracy/Resolution	See Data Sheet

Sensor Ext.	Range	-40°C to +125°C
	Type	10K NTC
	Location	External
	Response Time	Probe dependant
	Accuracy/Resolution	See Data Sheet

Required & Related Products

Probes	PB-5001-1M5/3M/5M PB-5002-1M5/3M/5M PB-5003-1M5
Software	SWCD-0040
Download Cable	CAB-0007 or CAB-0007-USB

Part No.	Description	List Price £
SWCD-0040	Tinytag Explorer Software	49.00
CAB-0007	Tinytag / Tranview PC download cable, Serial connection	5.00
CAB-0007-USB	Tinytag / Tranview PC download cable, USB connection	15.00
PB-5001-1M5	Standard thermistor probe 1.5m cable	35.00
PB-5001-3M	Standard thermistor probe 3.0m cable	45.00
PB-5001-5M	Standard thermistor probe 5.0m cable	55.00
PB-5002-1M5	Fast response thermistor probe 1.5m cable	35.00
PB-5002-3M	Fast response thermistor probe 3.0m cable	45.00
PB-5002-5M	Fast response thermistor probe 5.0m cable	55.00
PB-5003-1M5	Surface Thermistor probe 1.5m cable	45.00
ACS-6000	Trigger Start Magnet	10.00
SER-9550	Tinyview Service Kit including battery, seal and silica gel pack.	5.00

08 Data Monitoring & Recording

Tinytag Accessories



Thermistor Probes (Standard)

Part No.	Description	List Price £
PB-5001-1M5	Standard thermistor with 1.5m lead	35.00
PB-5001-3M	Standard thermistor with 3.0m lead	45.00
PB-5001-5M	Standard thermistor with 5.0m lead	55.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	60g (1.5m cable version)
Response Time	15 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-40°C to 125°C

Handle

Material	Evoprene G 978 & PP7064L1
Temperature Rating	-40°C to 130°C

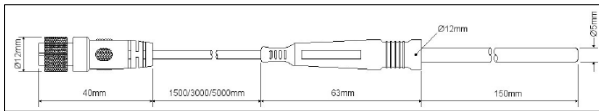
Handle may become brittle below -20°C

Cable

Material	Food grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

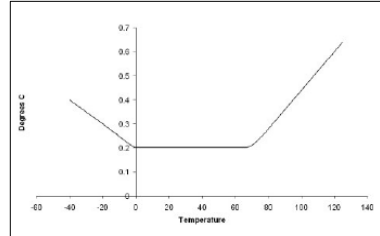
Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



Measuring Range	-40°C to 125°C
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Sensor Type	10K NTC Thermistor
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Sensor Accuracy	
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To Suit:

Tinytag Ultra Models
TGU-0020, TGU-0073, TGU-1510, TGU-1515

Tinytag Extra Models
TGX-3020, TGX-3520

Tinytag Plus Models
TGP-0020, TGP-0073, TGP-1510, TGP-1515, TGP-1520

Tinytag Plus Intrinsically safe Model
TGIS-0020

Tinyview Plus Models
TV-0020, TV-0073, TV-1510, TV-1515



Part No.	Description	List Price £
PB-5002-1M5	Fast response thermistor with 1.5m lead	35.00
PB-5002-3M	Fast response thermistor with 1.5m lead	45.00
PB-5002-5M	Fast response thermistor with 1.5m lead	55.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	60g (1.5m cable version)
Response Time	10 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-40°C to 125°C

Handle

Material	Evoprene G 978 & PP7064L1
Temperature Rating	-40°C to 130°C

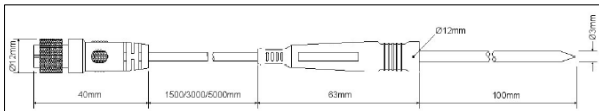
Handle may become brittle below -20°C

Cable

Material	Food grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

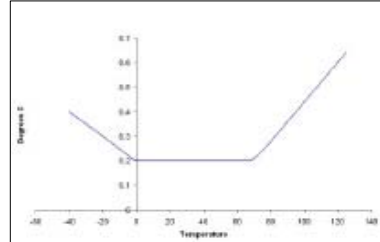
Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



Measuring Range	-40°C to 125°C
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Sensor Type	10K NTC Thermistor
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Sensor Accuracy	
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To Suit:

Tinytag Ultra Models
TGU-0020, TGU-0073, TGU-1510, TGU-1515

Tinytag Extra Models
TGX-3020, TGX-3520

Tinytag Plus Models
TGP-0020, TGP-0073, TGP-1510, TGP-1515, TGP-1520

Tinytag Plus Intrinsically safe Model
TGIS-0020

Tinyview Plus Models
TV-0020, TV-0073, TV-1510, TV-1515



Thermistor Probes (Fast Response)



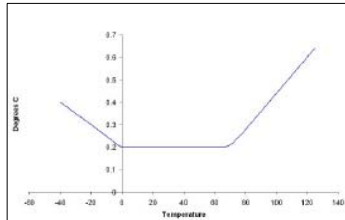
Thermistor Probes (Surface)



Measuring Range -40°C to 125°C

Sensor Type 10K NTC Thermistor

Sensor Accuracy



To Suit:

Tinytag Ultra Models
TGU-0020, TGU-0073, TGU-1510, TGU-1515
Tinytag Extra Models
TGX-3020, TGX-3520
Tinytag Plus Models
TGP-0020, TGP-0073, TGP-1510, TGP-1515,
TGP-1520
Tinytag Plus Intrinsically safe Model
TGIS-0020
Tinyview Plus Models
TV-0020, TV-0073, TV-1510, TV-1515

Part No.	Description	List Price £
PB-5003-1M5	Surface thermistor with 1.5m lead	45.00

Physical Properties

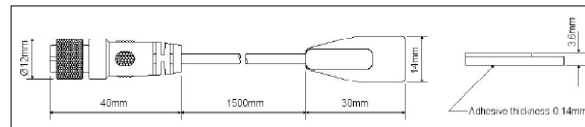
IP Rating	IP68 (Waterproof)
Weight	50g
Response Time	30 seconds (to 90%FSD) in Water
Material	Silicon
Adhesive	3M9731
Temperature Rating	-40°C to 125°C

Cable

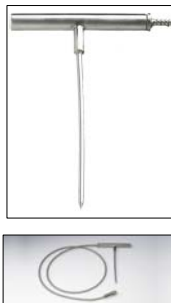
Material	Food grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



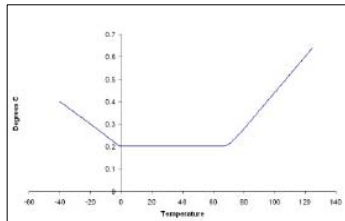
Thermistor Probes (Armoured Stab Probe)



Measuring Range -40°C to 125°C

Sensor Type 10K NTC Thermistor

Sensor Accuracy



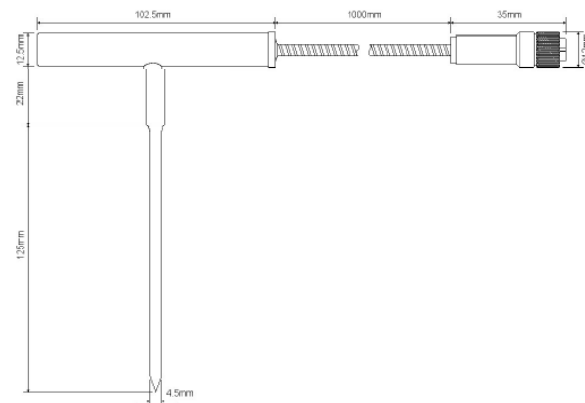
To Suit:

Tinytag Ultra Models
TGU-0020, TGU-0073, TGU-1510, TGU-1515
Tinytag Extra Models
TGX-3020, TGX-3520
Tinytag Plus Models
TGP-0020, TGP-0073, TGP-1510, TGP-1515,
TGP-1520
Tinytag Plus Intrinsically safe Model
TGIS-0020
Tinyview Plus Models
TV-0020, TV-0073, TV-1510, TV-1515

Part No.	Description	List Price £
PB-5004-1M	Armoured thermistor with 1m lead	112.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	142g
Response Time	10 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-40°C to 125°C



08 Data Monitoring & Recording

Tinytag Accessories



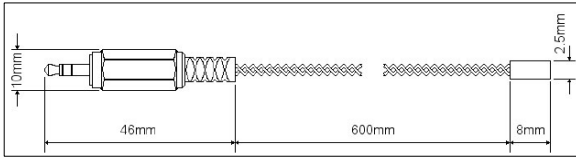
Part No.	Description	List Price £
PB-5005-0M6	Tinytalk thermistor with 0.6m lead	11.00

IP Rating*	IP68 (Waterproof)
Weight	5g
Response Time	10 seconds (to 90%FSD) in Water
Material	Epoxy
Temperature Rating	-40°C to 125°C

*Sensor & cable only

Cable	
Material	PTFE
Temperature Rating	-40°C to 125°C

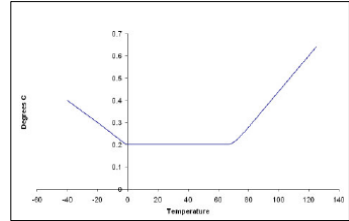
Connector	
Material	Food grade silicon
Temperature Rating	-40°C to 85°C



Measuring Range	-40°C to 125°C
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Sensor Type	10K NTC Thermistor
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Sensor Accuracy	
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To Suit:

Tinytag Talk 2 Model
TK-4023

Tinytag Talk Models
TK-0023, TK-0063

Thermistor Probes (Talk)

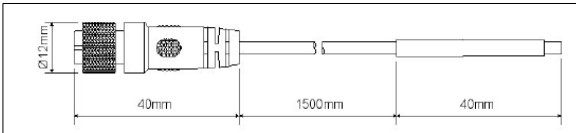


Part No.	Description	List Price £
PB-5006-1M5	Flexible thermistor with 1.5m lead	27.00

IP Rating*	IP68 (Waterproof)
Weight	60g
Response Time	12 seconds (to 90%FSD) in Water
Material	Epoxy
Temperature Rating	-40°C to 125°C

Cable	
Material	Silicon Rubber
Temperature Rating	-60°C to 200°C

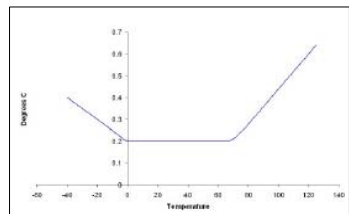
Connector	
Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



Measuring Range	-40°C to 125°C
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Sensor Type	10K NTC Thermistor
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Sensor Accuracy	
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To Suit:

Tinytag Ultra Models
TGU-0020, TGU-0073, TGU-1510, TGU-1515

Tinytag Extra Models
TGX-3020, TGX-3520

Tinytag Plus Models
TGP-0020, TGP-0073, TGP-1510, TGP-1515, TGP-1520

Tinytag Plus Intrinsically safe Model
TGIS-0020

Tinyview Plus Models
TV-0020, TV-0073, TV-1510, TV-1515

Thermistor Probes (Flexible)

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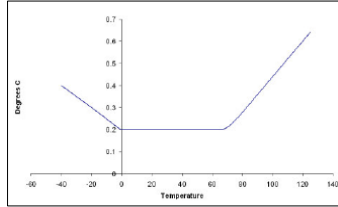


Thermistor Probes (Stub)

Measuring Range -40°C to 125°C

Sensor Type 10K NTC Thermistor

Sensor Accuracy



To Suit:

- Tinytag Ultra Models**
TGU-0020, TGU-0073, TGU-1510, TGU-1515
- Tinytag Extra Models**
TGX-3020, TGX-3520
- Tinytag Plus Models**
TGP-0020, TGP-0073, TGP-1510, TGP-1515, TGP-1520
- Tinytag Plus Intrinsically safe Model**
TGIS-0020
- Tinyview Plus Models**
TV-0020, TV-0073, TV-1510, TV-1515

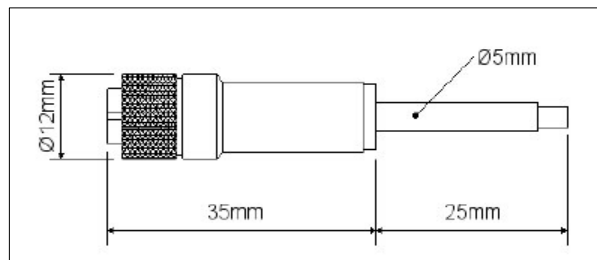
Part No.	Description	List Price £
PB-5007-0M025	Stub thermistor probe	25.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	60g
Response Time	12 seconds (to 90%FSD) in Water
Material	Epoxy
Adhesive	3M9731
Temperature Rating	-40°C to 125°C

Cable	
Material	Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector	
Material	Stainless Steel (316)
Temperature Rating	-40°C to 85°C



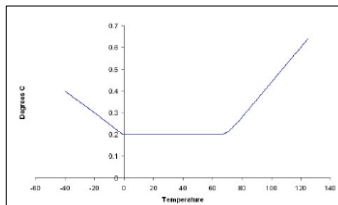
Thermistor Probes (Soil/Compost)



Measuring Range -40°C to 125°C

Sensor Type 10K NTC Thermistor

Sensor Accuracy



To Suit:

- Tinytag Ultra Models**
TGU-0020, TGU-0073, TGU-1510, TGU-1515
- Tinytag Extra Models**
TGX-3020, TGX-3520
- Tinytag Plus Models**
TGP-0020, TGP-0073, TGP-1510, TGP-1515, TGP-1520
- Tinytag Plus Intrinsically safe Model**
TGIS-0020
- Tinyview Plus Models**
TV-0020, TV-0073, TV-1510, TV-1515

Part No.	Description	List Price £
PBC-0001-0M2	1 Metre thermistor with 0.2m lead	95.00

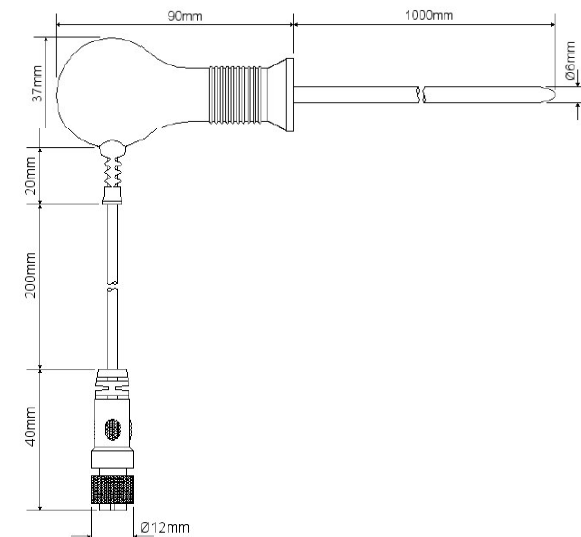
Physical Properties

IP Rating	IP68 (Waterproof)
Weight	270g
Response Time	20 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-40°C to 125°C

Handle	
Material	Polypropylene & TPR
Temperature Rating	-35°C to 125°C

Cable	
Material	Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector	
Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



08 Data Monitoring & Recording

Tinytag Accessories



Thermistor Probes (Transport)

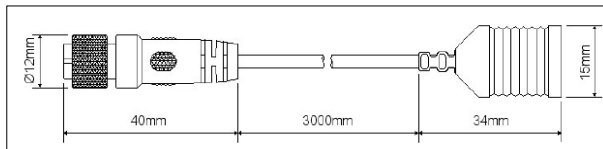
Part No.	Description	List Price £
PBC-0002-3M	Transportation Probe 3m Cable	35.00

IP Rating*	IP68 (Waterproof)
Weight	90g
Response Time	45 seconds (to 90%FSD) in Water
Material	TPE (Green)
Temperature Rating	-60°C to 175°C

*Sensor & cable only

Cable	
Material	Silicon Rubber
Temperature Rating	-60°C to 200°C

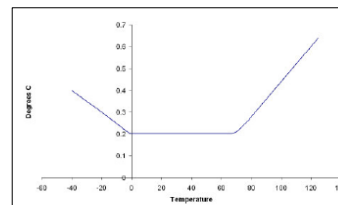
Connector	
Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



Measuring Range	-40°C to 125°C
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Sensor Type	10K NTC Thermistor
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Sensor Accuracy	
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To Suit:

Tinytag Ultra Models

TGU-0020, TGU-0073, TGU-1510, TGU-1515

Tinytag Extra Models

TGX-3020, TGX-3520

Tinytag Plus Models

TGP-0020, TGP-0073, TGP-1510, TGP-1515, TGP-1520

Tinytag Plus Intrinsically safe Model

TGIS-0020

Tinyview Plus Models

TV-0020, TV-0073, TV-1510, TV-1515



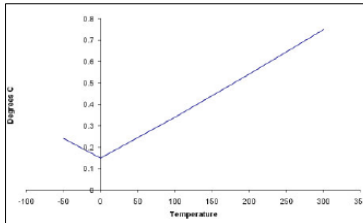
PT100 (2-Wire) (Standard)



Measuring Range -50°C to 300°C

Sensor Type PT100 Type A

Sensor Accuracy



To suit

Tinytag Ultra Model
TGU-0104

Tinytag Plus Model
TGP-0104

Tinyview Plus Model
TV-0104

Part No.	Description	List Price £
PB-6001-1M5	Standard 2-Wire PT100 probe 1.5m cable	40.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	60g
Response Time	25 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-50°C to 300°C

Handle

Material	Evoprene G 978 & PP7064L1
Temperature Rating	-40°C to 130°C

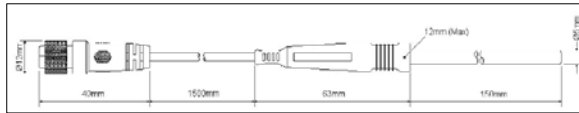
Handle may become brittle below -20°C

Cable

Material	Food Grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



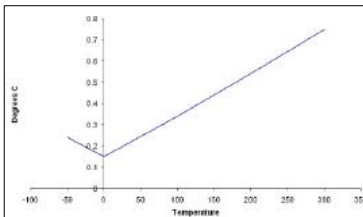
PT100 (2-Wire) (Tinytalk)



Measuring Range -50°C to 300°C

Sensor Type PT100 Type A

Sensor Accuracy



To Suit:

Tinytalk Model
TK-0102

Part No.	Description	List Price £
PB-6002-1M5	Tinytalk 2-Wire	40.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	270g
Response Time	25 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-50°C to 300°C

Handle

Material	Evoprene G 978 & PP7064L1
Temperature Rating	-40°C to 130°C

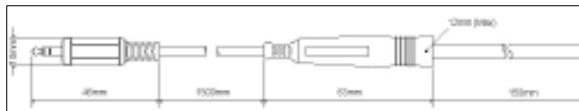
Handle may become brittle below -20°C

Cable

Material	Food Grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

Material	Food Grade Silicon Rubber
Temperature Rating	-40°C to 85°C



08 Data Monitoring & Recording

Tinytag Accessories



Part No.	Description	List Price £
PB-6003-1M5	High Temperature 3-Wire PT100 probe 1.5m	50.00

IP Rating*	IP68 (Waterproof)
Weight	80g
Response Time	30 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-50°C to 600°C

*Sensor & cable only

Sheath/Cable join strain relief spring

Material	Stainless Steel (316)
Temperature Rating	-50°C to 600°C

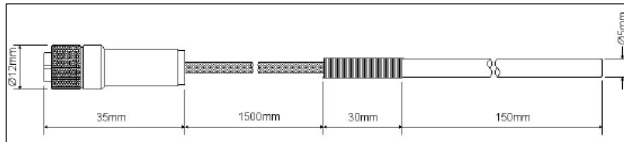
Handle may become brittle below -20°C

Cable

Material	Heavy Duty glass fibre with Stainless Steel over-braid
Temperature Rating	-60°C to 200°C

Connector

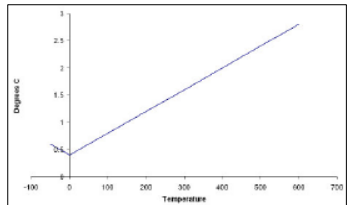
Material	Stainless Steel (316)
Temperature Rating	-40°C to 85°C



Measuring Range	-60°C to 600°C
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Sensor Type	PT100 Type A
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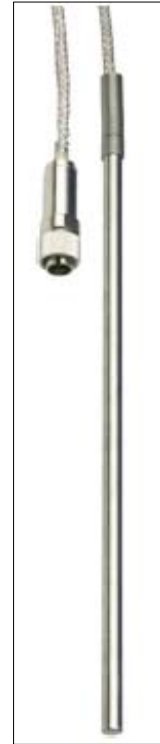
Sensor Accuracy	
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To Suit:

Tinytag Instrument Model

TGI-3143



Part No.	Description	List Price £
PB-6005-1M5	Standard 3-Wire PT100 probe 1.5m lead	40.00
PB-6005-3M	Standard 3-Wire PT100 probe 3m lead	60.00

IP Rating*	IP68 (Waterproof)
Weight	70g (1.5m version)
Response Time	25 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-50°C to 300°C

Handle

Material	Evoprene G 978 & PP7064L1
Temperature Rating	-40°C to 130°C

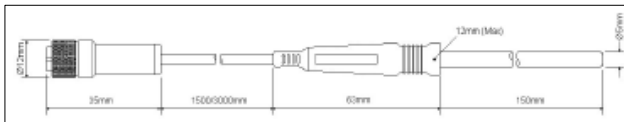
Handle may become brittle below -20°C

Cable

Material	Food Grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

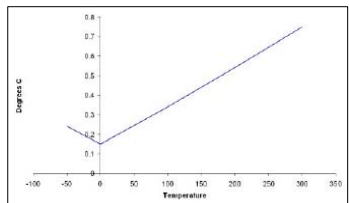
Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



Measuring Range	-50°C to 300°C
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Sensor Type	PT100 Type A
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Sensor Accuracy	
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To Suit:

Tinytag Plus Model

TGP-4104



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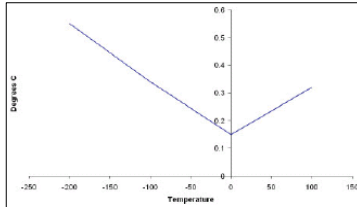
PT1000 (2-Wire) (Standard)



Measuring Range -200°C to 100°C

Sensor Type PT1000 Type A

Sensor Accuracy



To suit

Tinytag Plus Model
TGP-0204

Tinyview Plus Model
TV-0204

Part No.	Description	List Price £
PB-7001-1M5	Standard 2-Wire PT1000 probe 1.5m cable	40.00
PB-7001-3M	Standard 2-Wire PT1000 probe 3m cable	60.00
PB-7001-5M	Standard 2-Wire PT1000 probe 5m cable	70.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	60g (1.5m cable version)
Response Time	15 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-200°C to 100°C

Handle

Material	Evoprene G 978 & PP7064L1
Temperature Rating	-40°C to 130°C

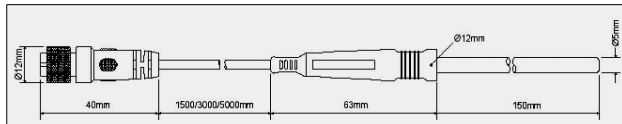
Handle may become brittle below -20°C

Cable

Material	Food Grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



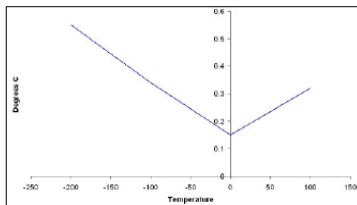
PT1000 (3-Wire) (Standard)



Measuring Range -200°C to 100°C

Sensor Type PT1000 Type A

Sensor Accuracy



To suit

Tinytag Plus 2 Model
TGP-4204

Part No.	Description	List Price £
PB-70021M5	Standard 3-Wire PT1000 probe 1.5m cable	40.00
PB-7002-3M	Standard 3-Wire PT1000 probe 3m cable	60.00

Physical Properties

IP Rating	IP68 (Waterproof)
Weight	70g (1.5m cable version)
Response Time	15 seconds (to 90%FSD) in Water
Material	Stainless Steel (316)
Temperature Rating	-200°C to 100°C

Handle

Material	Evoprene G 978 & PP7064L1
Temperature Rating	-40°C to 130°C

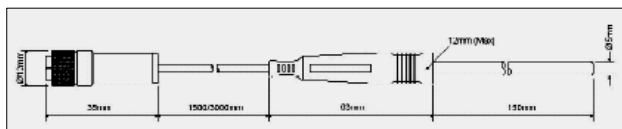
Handle may become brittle below -20°C

Cable

Material	Food Grade Silicon Rubber
Temperature Rating	-60°C to 200°C

Connector

Material	L-104 (TPU)
Temperature Rating	-40°C to 85°C



08 Data Monitoring & Recording

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12