The original IceSpy single-channel recorders

Designed to help the food industry meet its own quality control needs and those of the Food Hygiene Regulations, IceSpy SL is a freezer proof, 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 Windows™ (or DOS) software provides alarm setting and record analysis facilities in a powerful and versatile yet easy-to-use format.

IceSpy SL Features:

- Hand-held printer option.
- 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)

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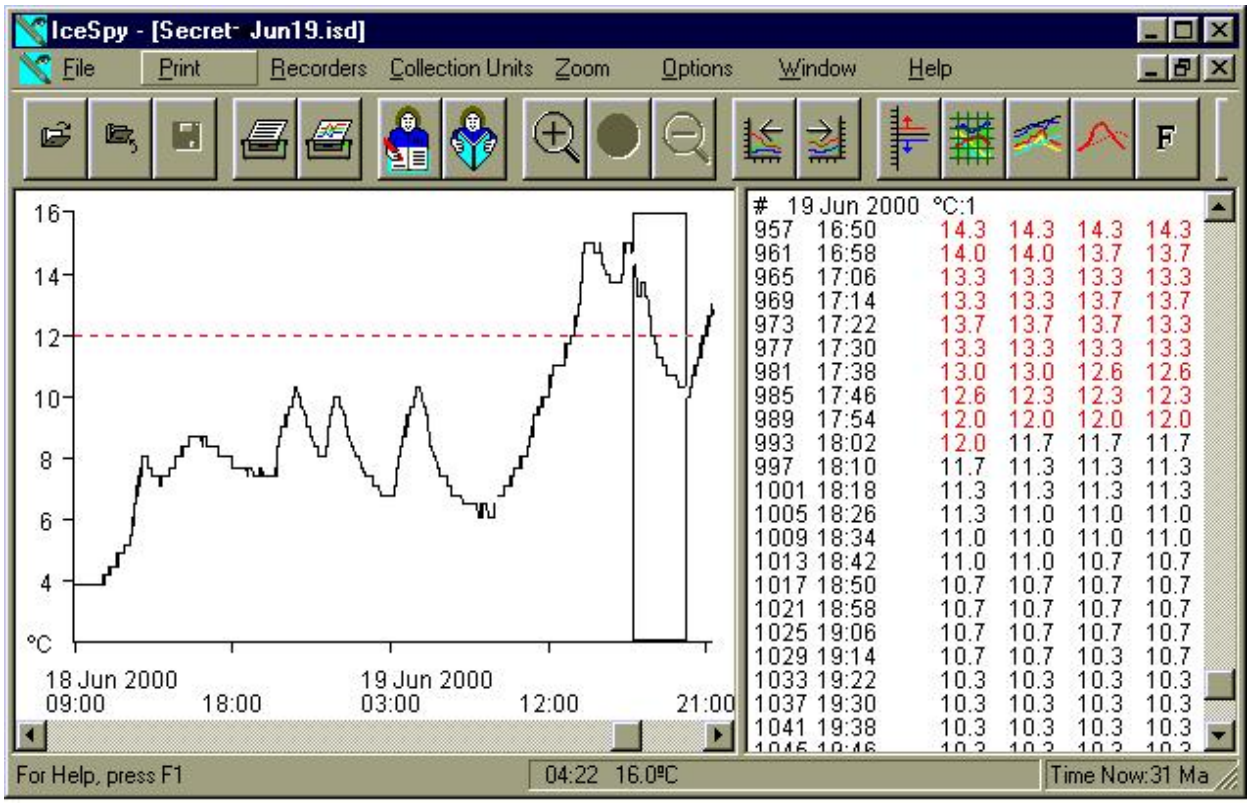
Convenience and security:
IceSpy SL takes all the worry out of recording cabinet or room temperatures; it stores the temperature with each time and date in its memory day-in, day-out, ready for you to read and print the information at suitable times. Recording at 1-hourly intervals the standard model will store nearly a years' readings before it begins to overwrite the oldest information. (Or it can be set to stop logging when the memory is full.) And IceSpy needs no servicing throughout its life.

Alteration of the stored data is impossible and the EEPROM memory ensures that data cannot be lost, even should the battery fail.

Output to handheld printer.....
Coupling IceSpy SL to its portable printer using the cable supplied automatically produces a table of readings since the last download. The listing will be headed with the IceSpy's individual identification number, the recording interval, alarm settings and any text you have had programmed into it - for example, the reference for the cabinet/shelf on which it's installed. The printer has an Epson mechanism with standard 57 mm "till roll" paper and uses readily available Epson ink ribbons. The SLPK kit includes a 220/240 V charger for the printer's internal battery and a cable for all IceSpy loggers.

. .....or PC
Alternatively IceSpy SL can be downloaded into a PC, using either the DOS or Windows™ software options. Both versions use mouse and window facilities for easy control and speedy viewing. Downloading from the logger is fast, using the serial cable included with the software kit.

The computer views give comprehensive illustration of temperature performance over the period logged, with easy identification and enlargement of periods of special interest. Facilities include: set up logger (alarm levels, start time, interval, description etc.); save setups on disk; read logger; print data (graph and text listings); convert file to text or spreadsheet format; view data as text list and graph; graph zoom; find max and min records; retrieve and view previous files. Comprehensive on-line help is provided for those apprehensive moments!



..... or by radio!

For bigger installations IceSpy RL, which transmits its data by radio to a central PC recording point, is available. Such a system enables interrogation of remote temperatures (and alarm monitoring) without even visiting the logger.

Warning alarms:

With the PC software kit, upper and lower temperature alarm levels can be set. (Or these can be factory set to requirements.) IceSpy has a green indicator which will be illuminated whilst there is no alarm state. If the local temperature goes outside the set limits, green will extinguish and red illuminate. When temperature returns to within limits, the green l.e.d. will come on again, and the red will remain on to show that an alarm has occurred since the last download. Naturally, IceSpy continues to record temperatures throughout all these conditions.

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