



- Intelligent temperature logger for refrigeration
- Wireless data communication
- Over 14,000 data readings stored
- Non-volatile memory
- Industry standard Thermistor supplied
- Configurable data log interval
- Monitors mains power interruptions
- Programmable upper / lower limit alarm
- Blue LED indicates normal operation
- Red LED indicates problem
- Snap-in mounting
- Bezel size 32mm x 14mm

## ▶ APPLICATIONS

- Refrigeration temperature monitoring for food safety compliance
- Deep freeze monitoring
- Cold storage monitor
- Chiller monitoring
- Process control temperature monitoring
- Visual checking of correct temperature
- Control system verification – independent monitoring of controller
- Power quality indication – records power interruptions
- Equipment status check - simple indicator lights

## ▶ OPERATION

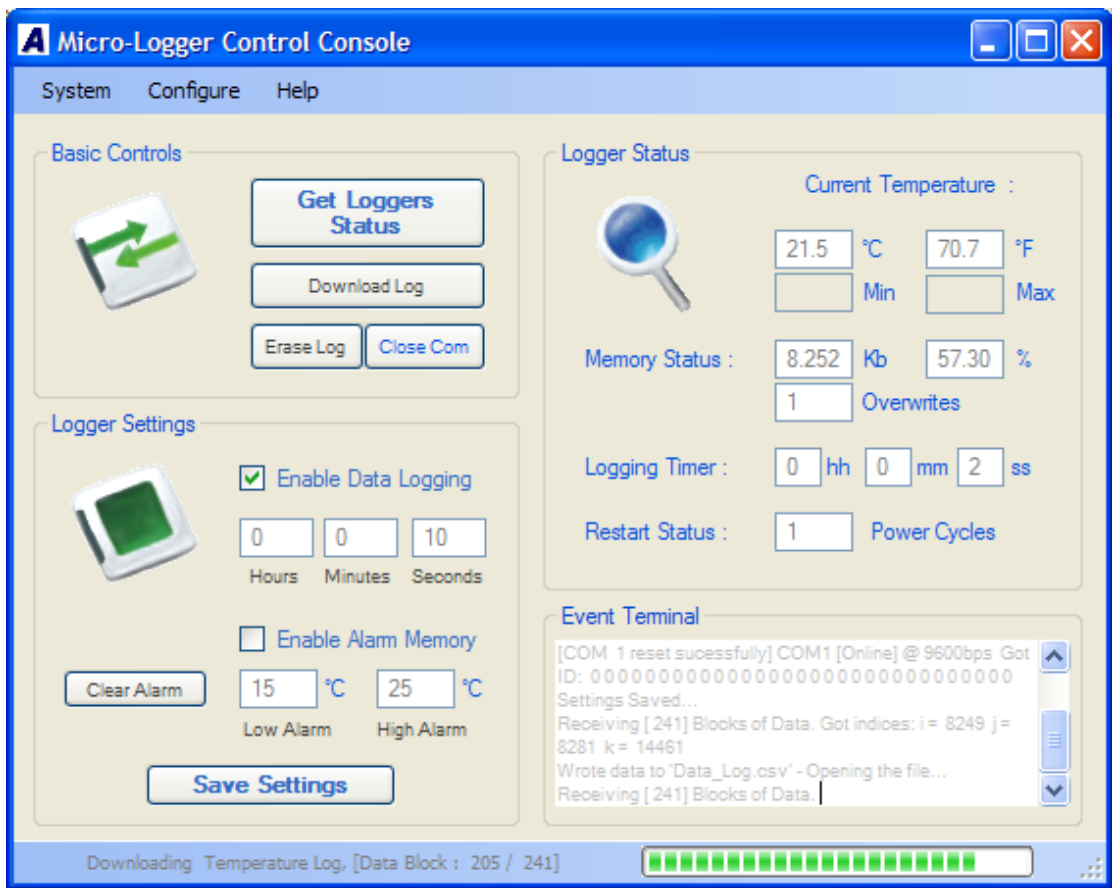
An Intelligent temperature data logging device for refrigeration applications, ideal for monitoring that freezers and chillers are maintaining the required temperatures to comply with food safety guidelines.

Designed to directly replace the standard neon indicator already fitted on many appliances, the front-panel mounted temperature logger operates like a standard neon indicator, giving visible status indication for the appliance or application. Normal operation will show continuous blue LED illumination (contact factory for other colours) while the monitored temperature is within the 'safe' range between lower and upper limits. The upper and lower temperature limits for alarm indication are fully user programmable.

The embedded microcontroller stores the temperature readings at regular intervals for retrieval and analysis. Over 14,000 readings can be stored in non-volatile memory (no battery is required).

The data log interval is user configurable between 1 second and 12 hours. The logger also records the number of mains power interruptions. Stored data can be transferred to a collection device (PDA or Laptop) via a wireless infrared data link – a PC Software package is available.

The device is provided with an industry standard Thermistor temperature sensor.



The PC software allows fast and simple configuration of the temperature micro logger device settings. The stored temperature data can be easily extracted using a serial port infrared data link.

With a single button press, the 'Download log' feature imports the stored temperature reading data directly into an Excel spreadsheet for easy analysis and display.

The logging time interval can be set to suit the end application.

Low and high alarm setpoints can be fully configured for LED indication on the logger front panel. When the measured temperature is between the low and high limits, the Blue LED illuminates to indicate that the measured temperature is acceptable. When the measured temperature falls outside of low or high alarm setpoint, the LED illumination changes colour to Red. Additionally, if the alarm memory box is checked, the only way to clear a temperature alarm is to press the 'Alarm Clear' button.

The Logger status is continually updated while the infrared data link is active, and the current measured temperature is displayed in °F and °C.

Memory usage can also be monitored.

► SPECIFICATIONS

Dimensions	Bezel 32.0mm x 14.0mm Panel cut-out 11.0/11.1mm x 30.0/30.1mm
Panel thickness	0.75mm to 2.5mm
Body	Nylon 6.6, matt finish, black colour is standard
Lens	Clear Polycarbonate, Softline matt finish (A)
Terminals	Copper alloy, 6.3mm x 0.8mm (C)
Flame retardancy	UL94V2
RoHS compliant	Yes
Temperature sensor	NTC Thermistor, sealed sensor, cable length 1m
Measurement range	-40°C to +85°C (-40°F to 185°F)
Measurement accuracy	±1.0°C (1.8°F)
Measurement resolution	±0.5°C (0.9°F)
Communications method	IrDA Infrared serial data port
Logging Interval	Programmable 1 second to 12 hours per measurement
Logging data capacity	>14,000 measurements stored
Data retention	>10 years without power
Operating supply	230V ±20% 50/60Hz
Approvals	CE Mark

► BODY

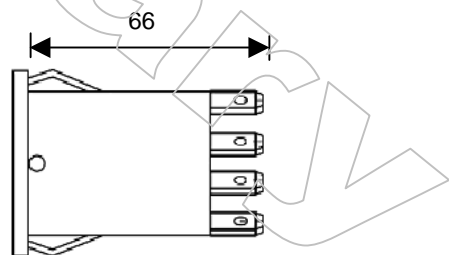
Panel cut-out



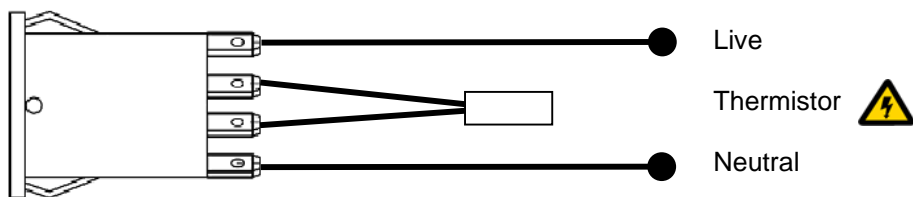
► OPTIONS

**LED colours** Contact factory for custom safe and fault LED colours.

► DIMENSIONS



► CONNECTIONS



Revision 2 05/2006 E&OE Copyright ©2006 Arcoelectric

