

Squirrel OQ610 series temperature data logger

Dedicated data logger for temperature and through process monitoring

Overview

The OQ610 temperature data logger is suitable for a wide range of temperature recording applications in industry, research and development. It is available as a stand alone temperature data logger or as part of a complete system for through process monitoring in the food and paint industries.

With the addition of a thermal barrier the Grant OQ610 is suitable for use in through process applications where heat treatment is being used to produce a product. To ensure consistent quality of heat treated products, it is important to have proof that they have passed through the manufacturing process at the right temperature for the right amount of time. By passing the Grant OQ610 oven logger through the process along with the products, a temperature profile can be produced to show exactly what is happening to the products and the process. Benefits include improved quality of your product and increased efficiency, reduced energy costs, quality assurance reports for compliance and traceability and complete quality control for your process.



Key features

- » 6 channels for use with a wide range of K or T type thermocouple probes
- » Battery operated and easily portable
- » Simple 3 button operation via built in display or from PC
- » Can be configured to automatically start and stop logging at specific times or temperature levels
- » Fast sample rates for fast process times: up to 8 samples / second
- » Can provide automatic cure calculation in through process applications
- » Non-volatile memory provides up to 260,000 readings of secure data
- » Time and date reported with each reading
- » Magnetic catch for battery compartment

The Squirrel OQ610 series comprises two models:

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| <ul style="list-style-type: none">» OQ610-S<ul style="list-style-type: none">– Supplied complete with SquirrelView for through process applications | <ul style="list-style-type: none">» OQ610<ul style="list-style-type: none">– Supplied complete with PaintView for paint oven monitoring applications |
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- » 6 channels for type K or T thermocouples
- » Compact and simple to use
- » High accuracy
- » Extended battery life



Squirrel OQ-610 Technical Specifications

Accuracy	-50 to 500°C - $\pm 0.5^{\circ}\text{C}$ -200 to 1300°C - $\pm 1.0^{\circ}\text{C}$
Resolution	0.1°C
Sampling rate	Fastest: eight times per second per channel Slowest: once every two hours per channel
Channels	6 K or T type thermocouples
Temperature measuring range	-200°C to 1300°C (K type) -200°C to 400°C (T type)
Operating environment	Temperature range -30 to 65°C Humidity 95%
Memory	Flash memory of 260,000 readings
Maximum runs stored	8
Communication	USB 1.1 and 2.0 compatible
Display	Alphanumeric display of 2 x 16 characters shows pass/fail, battery status, probes connected, real time readings and communication to printer or PC
Power supply	Two AA cells to give 200 hours operation at default settings
Dimensions and weight (l x w x h), g	148 mm x 95 mm x 21 mm, 450g

SquirrelView Software

Powerful and easy to use spreadsheet style software for configuring, downloading, displaying and analysing data. SquirrelView Plus upgrade available including real-time charts and historical data. Further details on page 28.

Probes

Suitable for use with wide range of thermocouple sensors. Full range available in the Probes section page 34.

Applications



Food production



Pharmaceuticals



Oven logging

Capabilities

- » Flexible start / stop
- » Scale and review readings in real-time on the integral display or on a PC running SquirrelView or PaintView