

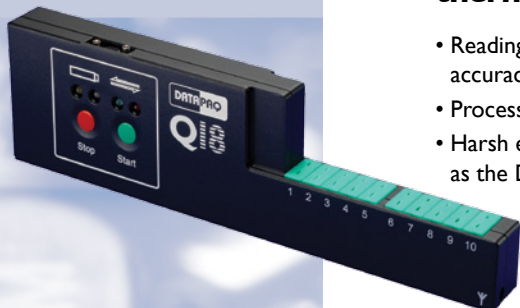


Fluke Process Instruments

Q18 Data Loggers

...the heart of the profiling system

The Q18 data logger range has been designed using the latest miniaturized electronic packaging technology, enabling us to combine speed of readings, superb accuracy and high resolution all in one versatile unit. The Q18 is intended for use in short and medium duration thermal processes and can be supplied in a number of configurations with between 4 and 12 type K thermocouple input channels.



- Readings from up to 12 thermocouples at a faster speed, finer resolution and greater accuracy than ever before
- Process data is communicated to the PC in seconds using a direct USB connection
- Harsh environment radio telemetry system enables you to immediately see profile data, as the Datapaq® system passes through your process

The Q18 data logger from Datapaq has the power and flexibility to profile thermal processes found in a wide range of industrial applications.

DESIGNED WITH EASE OF USE IN MIND

The Q18 retains the familiar status indicators and start/stop buttons common to the complete Datapaq range of industrial temperature data loggers.

READY FOR USE AT ALL TIMES

The Q18 is equipped with an internal NiMH battery and intelligent fast charger circuits – these allow the user to leave the logger permanently on charge with no risk of damage to the battery.

FAST AND EFFICIENT

The fast sampling capability and huge memory for readings enables large amounts of data to be captured, this is transferred in seconds to a PC using a high speed USB interface ensuring minimal time is lost. Additionally the logger can be specified with a radio telemetry option.

RADIO TELEMETRY

The radio telemetry option enables you to immediately see the data appearing on a PC screen as the system passes through your process. When this option is specified, the Q18 is fitted with a 'built into the logger', harsh environment radio transmitter. The PC is equipped with a USB based receiver system, while the Datapaq Insight™ analysis software controls the configuration.

A Q18 FOR EVERY PROCESS

The Q18 is available in a wide selection of height and width options, each of which has range of thermal barriers. This ensures that you can choose the data logger based on the requirements of your process.

FLEXIBLE

The Q18 has the power and flexibility to profile many different industrial thermal processes from electronics packaging and assembly, through food preparation, paint and powder coating to metal heat treatment.

TECHNICAL SPECIFICATIONS

Sampling Interval	0.05 seconds to 10 minutes
Accuracy	±0.5°C (1.0°F)
Resolution	0.1°C (0.2°F)
Maximum Internal Operating Temperature	85°C (185°F)
Temperature Range	-150°C to 1370°C (-238°F to 2498°F)
Memory	55,000 readings per channel (6 channels active)
Data Collection Start	Start/Stop buttons, time or temperature trigger
Battery	NiMH rechargeable
Thermocouples	Type K

DATA LOGGER	PART NUMBER	HEIGHT	WIDTH	LENGTH	NUMBER OF CHANNELS	TELEMETRY SYSTEM OPTIONS
	DQ1812	20 mm (0.7 in)	60 mm (2.3 in)	237 mm (9.3 in)	12	Q18 based temperature profiling systems can be specified with a radio telemetry option. A custom designed, harsh environment transmitter is fitted inside the data logger and transmits the readings in real time back to a receiver connected via USB to a PC.
	DQ1810	20 mm (0.7 in)	60 mm (2.3 in)	221 mm (8.7 in)	10	
	DQ1860	11.7 mm (0.4 in)	106 mm (4.1 in)	150 mm (5.9 in)	6	
	DQ1862	20 mm (0.7 in)	57 mm (2.2 in)	165 mm (6.4 in)	6	
	DQ1861	11.7 mm (0.4 in)	60 mm (2.3 in)	301 mm (11.8 in)	6	
	DQ1863	11.7 mm (0.4 in)	131 mm (5.2 in)	111 mm (4.4 in)	6	Does not support radio telemetry.
	DQ1800	11.7 mm (0.4 in)	106 mm (4.1 in)	150 mm (5.9 in)	6	Does not support radio telemetry.
	DQ1840	9 mm (0.35 in)	85 mm (3.3 in)	210 mm (8.3 in)	4	
	DQ1850	11.7 mm (0.4 in)	85 mm (3.3 in)	215 mm (8.5 in)	10	This logger can be fitted with TM21 to provide radio telemetry functionality.

Fluke Process Instruments

EMEA
Cambridge, UK
Tel: +44 1223 652 400
sales@flukeprocessinstruments.co.uk

Americas
Derry, NH USA
Tel: +1 603 537 2680
sales@flukeprocessinstruments.com

China
Beijing, China
Tel: +86 10 6438 4691
sales@flukeprocessinstruments.com.cn

Asia East and South
India Tel: +91 22 2920 7691
Singapore Tel: +65 6799 5596
sales.asia@flukeprocessinstruments.com

Worldwide Service
Fluke Process Instruments offers services, including repair and calibration. For more information, contact your local office.

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