

Data Acquisition by Grant

Squirrel 2010 Portable Data Logger



- Compact, truly portable data logger
- 4 to 8 universal analogue inputs
- 16 derived/calculated channels
- Store up to 14 million readings
- 0.1% accuracy
- 3 year warranty
- Supplied with SquirrelView software

SQ2010

The Squirrel 2010 is a versatile, general purpose data logger, with up to 8 analogue input channels to measure current, voltage, resistance, temperature and humidity; plus 8 digital channels to automatically trigger or stop logging. An RS232 port is included, allowing connection to modems and other network devices.

It is a compact, portable data logger which is also suitable for bench based and fixed installations. Easily programmed via the integrated push buttons and large display, the Squirrel 2010 portable data logger offers an accuracy of 0.1% and is able to fulfil many routine data logging needs, including more demanding applications requiring up to 10 readings per second on one channel.

Note: Kit part available - includes advanced software and power supply (SQ2010 Kit).

Squirrel 2020 Series Data Loggers



- Fully configurable via the integrated keypad
- Logging rates of up to 100Hz on up to 1-2 channels
- Removable MMC/SD card
- Store up to 14 million readings
- 3 year warranty

SQ2020 1F8/SQ2020 2F8

The Squirrel 2020 series offers high performance universal data logging packed with powerful features to provide greater flexibility, handling a wide range of routine and demanding applications.

Handheld and lightweight, the Squirrel 2020 series data loggers are easy, fast and convenient to use - either as stand-alone loggers or as PC-linked data acquisition systems in industry, scientific research and quality assurance applications.

Twin processors, multiple 24-bit analogue-to-digital converters, up to 16 universal channels and a choice of communications capabilities, for even the most sophisticated applications needs.



Wi-fi version available

Squirrel 2040 Series Data Loggers



- Large non-volatile internal memory storage for up to 14 million readings
- Removable MMC/SD card
- Fully configurable via the integrated keypad
- Logging rates of up to 100Hz on up to 2-4 channels
- 3 year warranty

SQ2040 2F16/SQ2040 4F16

The Squirrel 2040 series combines a higher channel count with the same high performance, comprehensive features and universal inputs as the 2020 in a neat compact and portable instrument.

Using multiple 24-bit analogue to digital converters, twin processors and removable memory options, the 2040 series provides great flexibility to handle a wide range of complex and demanding multi-channel applications.

The Squirrel 2040 series data loggers are ideal for industry, scientific research and quality assurance applications, providing a stand-alone data acquisition, advanced networked solution and data analysis product straight out-of-the box.



Wi-fi version available

Summary of specifications		Including Wi-Fi version			Including Wi-Fi version	
	Entry Level	Standard	High Speed	High Performance	Extended High Performance	
	SQ2010	SQ2020-1F8	SQ2020-2F8	SQ2040-2F16	SQ2040-4F16	
• = standard						
* For Ethernet or Wi-Fi networks external power pack is required.						
** Can use RS232 to Ethernet converter and RS232 to Wi-Fi converter						
						
						
Analogue input channels	4 to 8	8 to 16	8 to 16	16 to 32	16 to 32	
High voltage channels	-	2	2	2	2	
Digital channels	8	8	8	8	8	
Counter channels	2	4	4	4	4	
Input types:						
- current	•	•	•	•	•	
- voltage	•	•	•	•	•	
- resistance	2-wire	2-wire	2-, 3- or 4-wire	2-wire	2-, 3- or 4-wire	
- 3- or 4-wire Pt100/Pt1000	-	-	4	-	8	
- temperature	•	•	•	•	•	
Max no. readings per second	10 (on 1 channel)	20 (on 1 channel)	100 (on 2 channels)	100 (on 2 channels)	100 (on 4 channels)	
Accuracy	0.1%	0.05%	0.05%	0.05%	0.05%	
Display	128x64 dot matrix LCD	128x64 dot matrix LCD	128x64 dot matrix LCD	128x64 dot matrix LCD	128x64 dot matrix LCD	
Memory capacity	14 million readings	14 million readings	14 million readings	14 million readings	14 million readings	
External memory (MMC/SD card, = 128MB*)	-	•	•	•	•	
RS232 communications	•	•	•	•	•	
USB communications	•	•	•	•	•	
Ethernet*	- **	- **	•	•	•	
Wi-Fi network*	- **	- **	•	•	•	
Alarm outputs	2	4	4	4	4	
Sensor power output	Regulated 5VDC @50 mA and external supply voltage up to 28V on SQ2010 and 18V on all others @100 mA					
Set-up/analysis software	SquirrelView / SquirrelView Plus					

Probes, Calibration and Software

Probes: Tempcon offers a wide range of custom made probes upon request including thermistors, thermocouples and combined temperature and humidity probes.



Calibration: Tempcon offers an in house calibration service which meets national standards. UKAS calibration is also available. For all enquiries please contact our dedicated sales team by emailing info@tempcon.co.uk or calling **+44 (0) 1234 558270**.

SquirrelView: A universal software package that is included with every Grant Squirrel data logger for FREE. Its intuitive, user friendly, spreadsheet style interface allows quick set-up of the data logger for any application, speedy download of data and direct export to Excel™. SquirrelView Plus gives additional benefits such as graphical data analyses and advanced reporting options. This is also available in a multi-licence version which can be used on multiple PC's within an organisation.

