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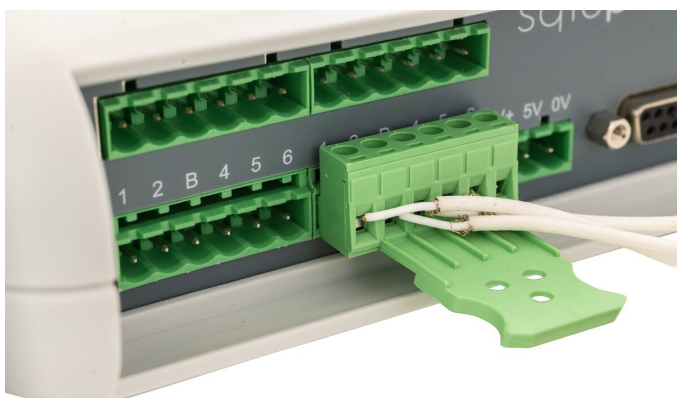Ford
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Grant Squirrel SQ16 Universal Multi-channel Data Logger

Product Images

Short Description

The SQ16 is the entry-level Squirrel logger. It's long battery life makes it ideal for portable and routine data logging applications. The logger can be started or stopped using the multi function button which displays logger status, this means a PC is not required to run the logger in situ. Store up to 200 million readings in the Squirrel's onboard memory and up to 6 logger configurations. Use the SD Card memory slot for grabbing measured data in the field or use the SquirrelView mobile app or software to download and export your data.

Description

Key Features

- Simple set-up and intuitive to use
- Long battery life gives long life operation and portability
- Tough casing and robust design ideal for environmental applications
- Bluetooth and USB connectivity for multiple connection choices
- SD memory card for ease of data transfer.

Powerful performance, meets your application needs

- Portable monitoring
- Environmental applications
- Vehicle and transport applications
- General industrial monitoring.

Ultimate data logging experience, instant connectivity

The Squirrel sq range of data loggers and software, offers you the ultimate experience in data logging through powerful performance, connectivity and innovative software. These next generation loggers boast multiple features to meet your business and applications needs.

Choose your parameters, set your goals

The universal channel inputs measure current, voltage, resistance, and a host of parameters that includes; temperature, humidity, pressure, flow, wind speed, and concentration. Digital channels automatically trigger or stop logging. This means you can set the logger to automatically start or stop logging if an event occurs.

Control via your app, get the data you need instantly

Communication through a dedicated mobile app comes as standard via wireless Bluetooth as well as the ability to network data loggers through the all-new communications hub, giving a host of remote operating options together with powerful data capture. Get the right data, alerts and alarms when and where you want them.

Easy to use, simple to set up

Easy to use and easily programmed, using the new SquirrelView software. The all-new Squirrel data loggers give you everything from standalone portable data logging to a fixed on-line monitoring system that measures many parameters, always giving you instant data access.

Extend your channels, stack to save space

Each logger has 8 differential channels and is easy to extend using the new SquirrelView software and sqhub. Multiple loggers may be linked, enabling up to 128 channels of data to be measured and monitored at any one time. Designed for stacking, saving you space and giving you the option to use multi-channel logging.

Small in size, big in capability

Tough, technology lead loggers, designed to give fast and accurate data, store it safely and retrieve easily for precise reporting when you need it.

Additional Information

	Specifications	
Explanation	**No of channels single ended**	16 single ended or 8 differential inputs
	Universal input	Yes* *2 wire probes (not 3 or 4 wire resistance)
	Voltage ranges; differential and single ended	-25 to 50V, -1.5 to 2.5V
	Common mode	60V
	Current ranges, differential (requires external 10Ω shunt)	4 to 20mA, -30 to +30mA
	Thermocouple ranges; differential and single	K-type -200 to 1372°C R-type -50 to 1768°C B-type 250 to 1820°C T-type -200 to 400°C S-type -50 to 1768°C C-type 0 to 2320°C N-type -200 to 1300°C J-type -200 to 1200°C D-type 0 to 2320°C
	Resistance ranges, all 2 wire	0 to 300,000Ω
	Thermistor ranges	U, UU, Y & S – type – 50 to +150°C & customer specific thermistors
	Pt100/1000, 2-wire	-200 to 850°C
	Internal reference temperature	-55 to 150°C
	Pulse count ranges	0 to 100Hz (2 input) 0 to 64kHz (2 input) 0 to 34,360,000,000 count
	Digital state/event ranges	8 state inputs or 1 x 8 bit binary
	Digital/alarm outputs	4 open drain FETs, 40V, 0.1A
	A/D resolution	32 bit
	Accuracy	0.1% of range + 0.1% of reading
	Clock resolution/accuracy	1s/10ppm
	Sampling rates	1, 2 4 or 8 readings per second
	Data statistics	Yes from within new SquirrelView plus PC software
	Calculated channels	Yes, up to 16
	Memory internal	4GB, approximately 200 million readings
	Multi function button	LED Status indication and start/stop
	Internal battery	6 x AA cells
	Battery life	up to 6 months all channels logging every 15 minutes
	External power	Yes, 8 to 38v dc or via USB
	Sensor power output	8-38V at 150mA when connected to external power supply
	Networking	Via USB or open thread
	Modem support	Via USB hub
		Four alarm outputs, fully configurable actions and triggers
		Yes, SquirrelView compatible
	Actions & triggers PC setup	
	Front panel setup	Via smartphone app. All essential functionality available via app e.g. channel configuration, start/stop logging etc. Other advanced functions e.g. calculated channels and channel descriptions are available via connection to a PC running SquirrelView
	Stored setups	6
	Operating temperature	-20 to 65°C
	Dimensions (w x d x h)/ weight	257mm x 206mm x 57.3mm, 1.5kg
	Working environment	– 30 to 65°C, RH up to 95% (non-condensing)
Contents	• SQ16 Data Logger • SquirrelView software • Signal connectors • Screwdriver • USB to PC cable • Batteries.	
Ideal For	Professional	
Brand	Grant	
Channel(s)	16	
Typical applications	Aerospace, Automotive, Datalogging, Environmental (Indoor), Environmental (Outdoor), Food Processing, HVAC, Industrial	
Measurements	Current AC, Current DC, Flow, Humidity, Pressure, Temperature, Universal, Voltage AC, Voltage DC, Wind Speed	

https://www.tempcon.co.uk/grant-squirrel-sq16

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