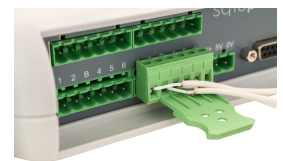
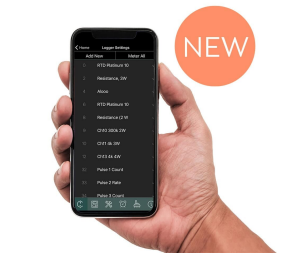




# Grant Squirrel SQ16PLUS Universal Multi-channel Data Logger

## Product Images



## Short Description

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The SQ16PLUS boasts more advanced technology than the SQ16, giving faster logging speeds. With 3 and 4 wire PT resistance probe support, you get the best accuracy in temperature measurement.

### Network ready, next generation technology

- Game changing accuracy with precise data capture technology
- Network ready plug and play
- Remote monitoring with data capture anywhere and anytime via desktop or mobile device
- Channel expansion up to 128 channels.

## Description

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### 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.

### Game-changing data accuracy, empower your industry

- Pharmaceutical
- Thermal mapping
- Aerospace
- Automotive
- Quality control
- Compliance 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	<b>No of channels single ended</b>	16 single ended or 8 differential inputs
	<b>Universal input</b>	Yes, including 2, 3 and 4 wire resistance
	<b>Voltage ranges: differential and single ended</b>	-40 to 60V, -6 to 10V, -1.5 to 2.5V, ±300mV
	<b>Common mode</b>	60V 4 to 20mA, -30 to +30mA
	<b>Current ranges, differential (requires external 10Ω shunt)</b>	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
	<b>Thermocouple ranges, differential and single</b>	N-type -200 to 1300°C J-type -200 to 1200°C D-type 0 to 2320°C
	<b>Resistance ranges, 2,3 &amp; 4 wire</b>	0-2000R and 0-300000R 2-wire, 0-4000R 3-wire and 0-4000R 4-wire
	<b>Thermistor ranges Pt100/1000, 2-wire</b>	U, UU, Y & S - type - 50 to +150°C & customer specific thermistors -200 to 850°C
	<b>Internal reference temperature</b>	-55 to 150°C
	<b>Pulse count ranges Digital state/event ranges</b>	0 to 100Hz (2 input) 0 to 64kHz (2 input) 0 to 34,360,000,000 count 8 state inputs or 1 x 8 bit binary
	<b>Digital/alarm outputs</b>	4 open drain FETs, 40V, 0.1A
	<b>A/D resolution</b>	32 bit
	<b>Accuracy</b>	0.1% of range + 0.1% of reading
	<b>Clock resolution/accuracy</b>	1s/10ppm
	<b>Sampling rates</b>	Up to 100 readings per second on 2 channels
	<b>Data statistics</b>	Yes from within new SquirrelView plus PC software
	<b>Calculated channels</b>	Yes, up to 16
	<b>Memory internal</b>	16GB, approximately 800 million readings
	<b>Multi function button</b>	LED Status indication and start/stop
	<b>Internal battery</b>	6 x AA cells
	<b>Battery life</b>	up to 6 months all channels logging every 15 minutes
	<b>External power</b>	Yes, 8 to 38v dc or via USB
	<b>Sensor power output</b>	8-38V at 150mA when connected to external power supply
	<b>Networking</b>	Via USB or open thread
	<b>Modem support</b>	Via USB hub
	<b>Actions &amp; triggers</b>	Four alarm outputs, fully configurable actions and triggers
	<b>PC setup</b>	Yes, SquirrelView compatible
	<b>Front panel setup</b>	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
	<b>Stored setups</b>	6
	<b>Operating temperature</b>	-20 to 65°C
	<b>Dimensions (w x d x h) weight Working environment</b>	257mm x 206mm x 57.3mm, 1.5kg -30 to 65°C, RH up to 95% (non-condensing)
	Contents	<ul style="list-style-type: none"> <li>• SQ16PLUS Data Logger</li> <li>• SquirrelView software</li> <li>• Signal connectors</li> <li>• USB to PC data transfer cable</li> <li>• AA Batteries.</li> </ul>
Ideal For	Professional	
Brand	Grant	
Channels(s)	16	
Typical applications	Aerospace, Automotive, Datalogging, Environmental (Indoor), Environmental (Outdoor), Food Processing, HVAC, Industrial, Pharmaceutical	
Measurements	Current AC, Current DC, Flow, Humidity, Pressure, Temperature, Universal, Voltage AC, Voltage DC, Wind Speed	