



# Squirrel sq loggers

Multi channel, accurate, flexible data loggers  
with smart features and connectivity

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For pricing or any further information, please contact Omni Instruments Ltd.

# Overview

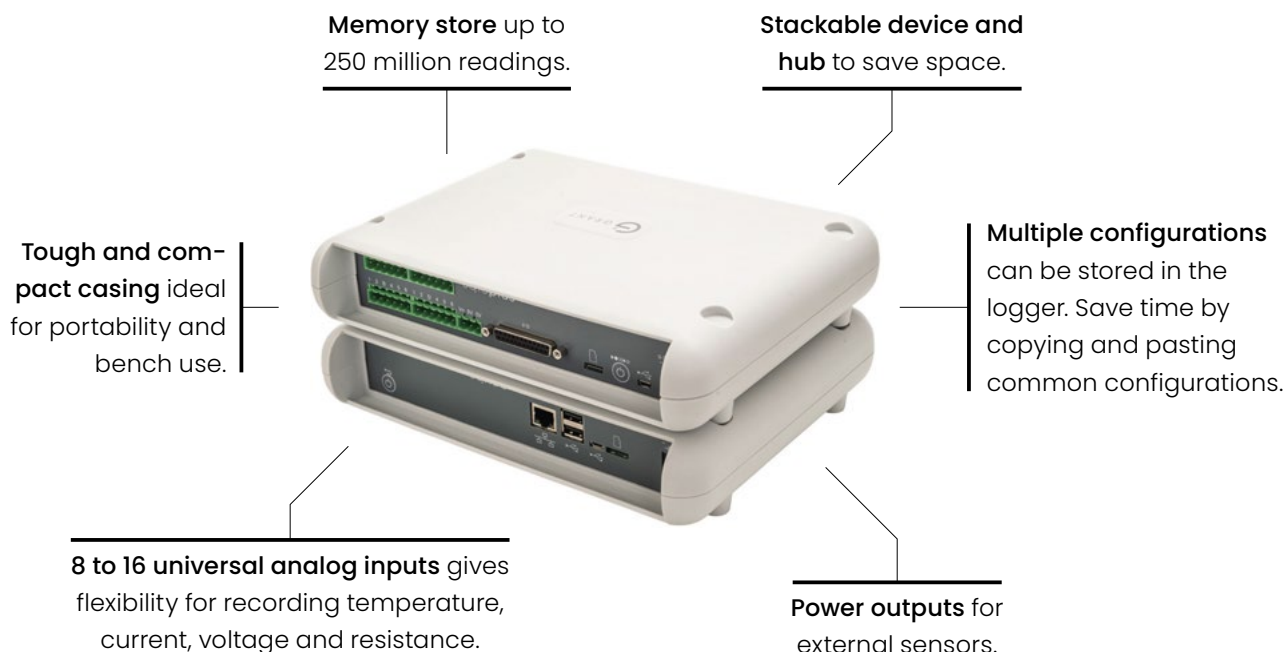
The Squirrel sq range of data loggers and software, offers you the ultimate experience in data logging through powerful performance, connectivity and innovative software. These next generation loggers boast multiple features to meet your business and applications needs.

The universal channel inputs measure current, voltage, resistance, and a host of parameters including; 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.

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 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.

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

# sql6

The sql6 is our entry level logger with long battery life, making it ideal for portable applications 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 250 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 app or software to download and export your data.

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**Easy to use** simple set-up and intuitive to use

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**Long battery life** gives long life operation and portability

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**Tough casing and curved design** ideal for environmental applications

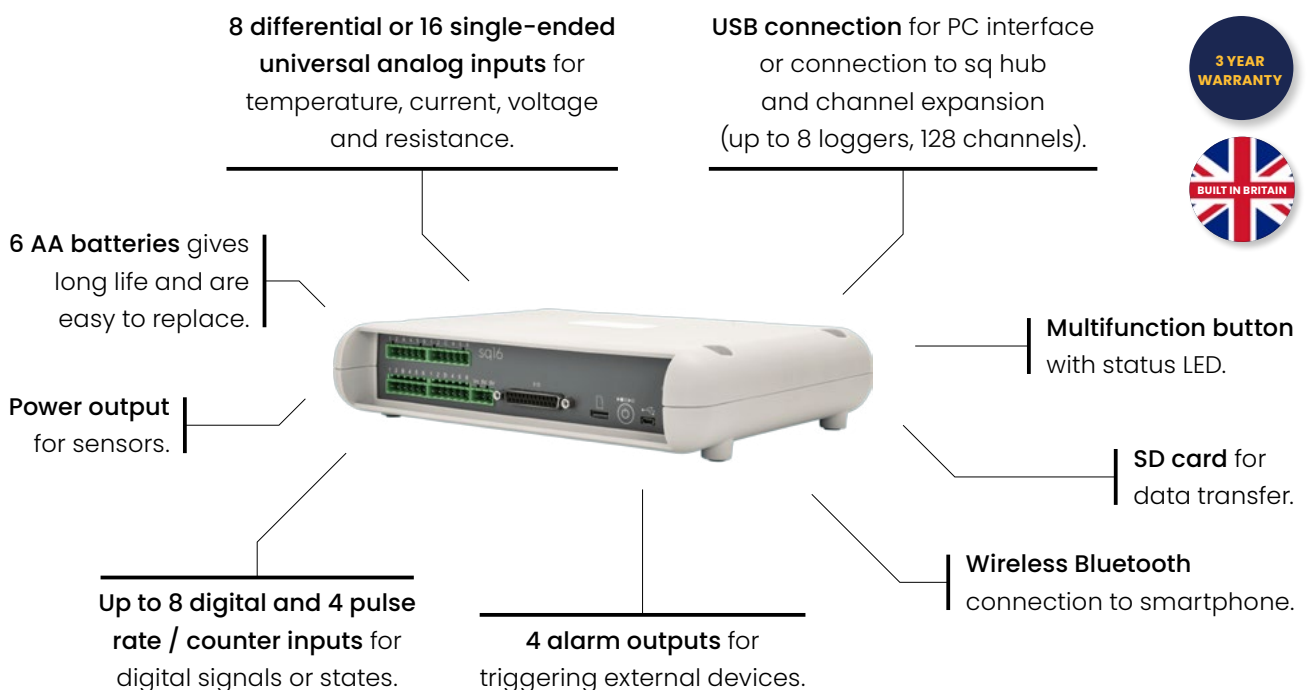
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**Bluetooth and USB connectivity** for multiple connection choices

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**SD memory card** for ease of data transfer

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## POWERFUL PERFORMANCE, MEETS YOUR APPLICATION NEED

Portable monitoring, environmental applications, vehicle and transport applications and general industrial monitoring.

# sql6plus

The sql6plus boasts more advanced technology, giving faster logging speeds. With a 3 and 4 wire PT resistance probe support, you get the best accuracy in temperature measurement.

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**Game changing accuracy** with precise data capture technology

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**Network ready** plug and play

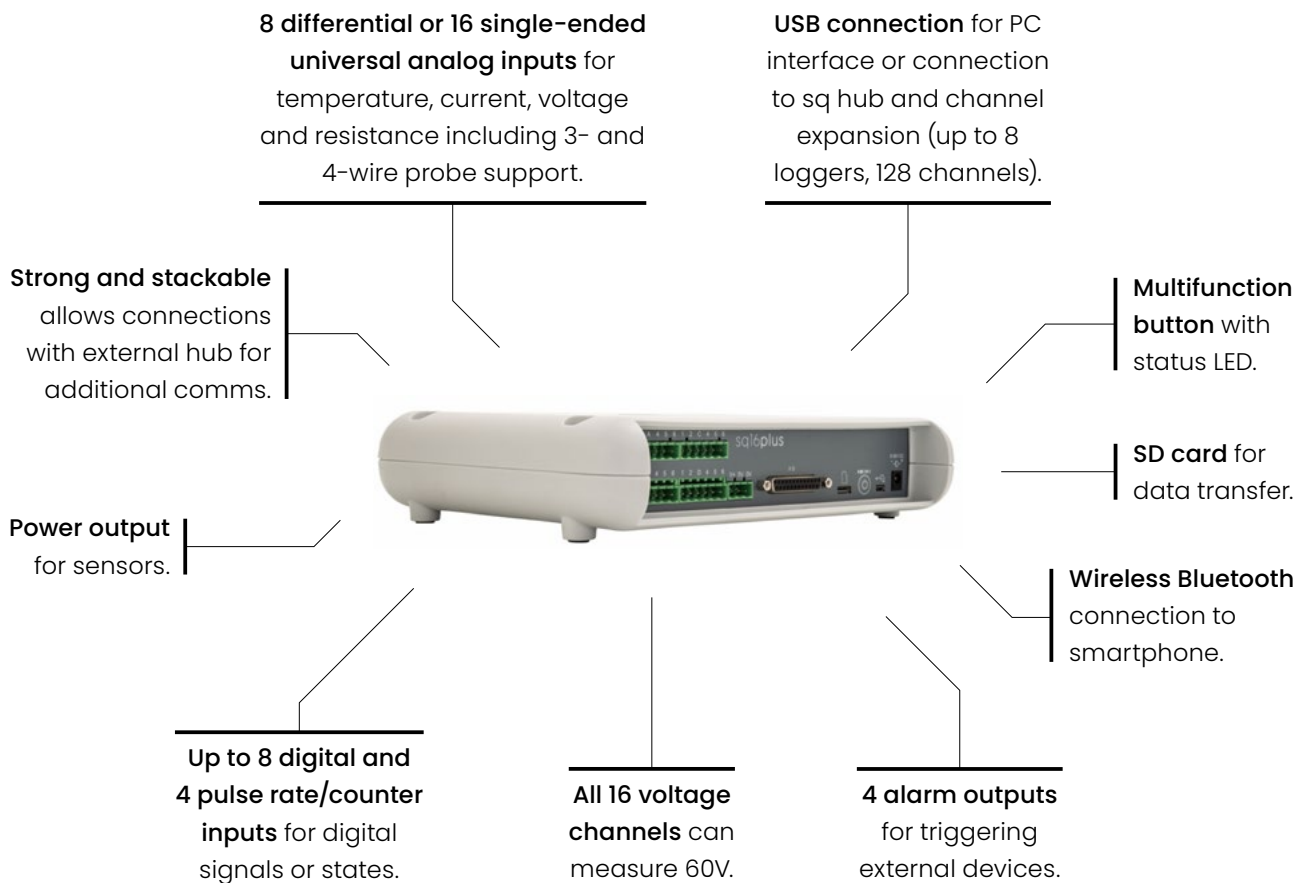
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**Remote monitoring** with data capture anywhere and anytime via desktop or mobile device

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**Channel expansion** up to 128 channels

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## GAME-CHANGING DATA ACCURACY, EMPOWER YOUR INDUSTRY

Pharmaceutical, thermal mapping, aerospace, automotive, quality control and compliance monitoring.

# sql6hub

The sqhub is our all-new communications gateway, giving connectivity between loggers and a whole host of networking possibilities. WiFi, Ethernet, Open Thread, Lora and 4G connections means, online data from a network of loggers can be accessed instantly. With alerts, alarms and automated data forwarding, the sqhub makes it simple to access the data you want when you want it. The sqhub gives scalability, putting you in control of multiple data loggers and inputs.

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**Network ready** plug and play

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**Remote monitoring** data capture anywhere and anytime via desktop or mobile device

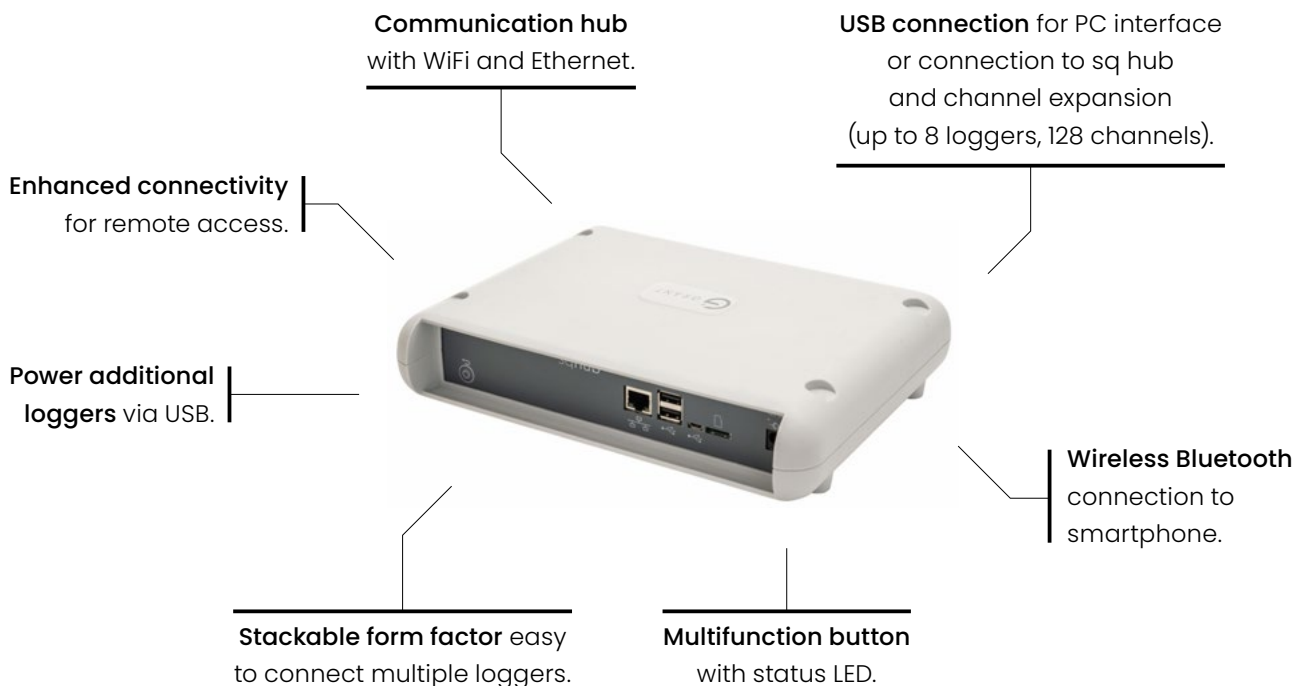
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**Channel expansion** up to 128 channels

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**Instant notification** of temperature excursions

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## INNOVATIVE SOFTWARE, DESIGNED FOR ANY APPLICATION

Building monitoring i.e. IAQ, on line data across large sites, critical temperature monitoring in the cold chain, validation, seamless data integration.

# Mobile app

The mobile app has been designed to interface with the loggers using Bluetooth or via a WiFi connected network and works on Android/iOS.



# SquirrelView software

Easily programmed using the all-new SquirrelView software and all-new Squirrel sq data loggers, you get instant access to jam-packed features. Everything from standalone portable data logging, to a fixed online monitoring system measuring a host of parameters and instant data access.

SquirrelView lets you to set up the logger and start recording in a few clicks. Whatever your level of data logging experience, set up simple or advanced acquisitions, record, view and analyse your data quickly and easily.

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**Powerful and easy to use functionality** for complete analysis and configuration

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**Upgrade your system** channel expansion links loggers and combines data from each logger model

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**Coming soon!** CFR 21 part 11 fully featured versions of the software with analysis – available in 2025

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## SMART TECHNOLOGY, SIMPLE TO CONTROL

Innovative software and hardware solutions designed to help you control your process, your budget and your time.

# Specifications

|   | sql6<br>basic   | sql6plus<br>advanced                                    |
|---|---|---|
| Number of differential channels   | 8   | 8   |
| Number of single-ended channels   | 16  | 16  |
| Channel expansion   | Yes   | Yes   |
| 2 wire resistance   | Yes   | Yes   |
| 3/4 wire resistance   | No  | Yes   |
| Voltage   | -25 to 50V  | -40 to 60V  |
| 1/4, 1/2 & full bridge  | Yes   | Yes   |
| Single ended DC   | Yes   | Yes   |
| Differential DC   | Yes   | Yes   |
| Current Loop (4 20mA)   | Yes   | Yes   |
| Thermocouple B, C, D, J, K, N, R, S and T single-ended and differential | Yes   | Yes   |
| Thermistor, Grant & user defined  | Yes   | Yes   |
| Digital state input channels  | Yes   | Yes   |
| Digital alarm outputs   | Yes   | Yes   |
| Ref junction temperature  | Yes   | Yes   |
| Scan intervals  | up to 24 hrs  | up to 24 hrs  |
| Internal ref temp accuracy  | better than 0.1°C<br>over range 5-40°C                  | better than 0.1°C<br>over range 5-40°C                  |
| Fast channels   | up to 16Hz  | up to 96Hz x2 channels                                  |
| Calculated channels   | 16  | 16  |
| Meter mode (via smartphone)   | Yes   | Yes   |
| Battery life  | up to 6 months all channels<br>logging every 15 minutes | up to 6 months all channels<br>logging every 15 minutes |
| External power  | 9-36V   | 9-36V   |
| Sensor power output   | 5V at 50mA and external supply<br>at 100mA              | 5V at 50mA and external supply<br>at 100mA              |
| Memory  | 4GB   | 16GB  |
| Operating environment   | -30 to 65°C, 0 to 95% RH<br>(non condensing)            | -30 to 65°C, 0 to 95% RH<br>(non condensing)            |
| USB   | Yes   | Yes   |
| Micro SD  | Yes   | Yes   |
| Bluetooth   | Yes   | Yes   |
| Dimensions  | 257 x 206 x 57.3mm                                      | 257 x 206 x 57.3mm                                      |
| Weight  | 1.5kg   | 1.5kg   |