Squirrel sq16 data logger

Specifications

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 scaling	Yes

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
Actions & triggers	Four alarm outputs, fully configurable actions and triggers
PC setup	Yes, SquirrelView compatible
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)

sq16v1.1