

Geomotion
AUSTRALIA



Instrument Datasheet

RIPPA IoT Logger 4G Wireless Data Network

DESCRIPTION

The RIPPA IoT Logger is a 1 or 2 channel datalogger that connects to most 4-20mA, pulse and SDI12 sensors. Once the sensors are connected, the system will monitor and transmit data directly to a user friendly website via 4G mobile signal.

The RIPPA is powered with internal batteries, ensuring a low maintenance, trouble free monitoring system. A solar powered option is also available with a rechargeable internal battery for long-term monitoring programs.

OPERATION

The RIPPA Wireless Data Network is fast and simple to install in any environment that has mobile phone coverage.

The sensors are connected to the rugged waterproof datalogger which is then activated by swiping a magnet over the unit. The system will automatically start logging and transmitting data directly to a user-friendly website where near real-time data can be viewed, manipulated and presented.

APPLICATIONS

- ✓ Pore pressure monitoring
- ✓ Water level monitoring
- ✓ Barometric monitoring
- ✓ Tilt monitoring
- ✓ Deflection monitoring
- ✓ Displacement monitoring
- ✓ Load monitoring
- ✓ Rainfall monitoring
- ✓ Water and air flow monitoring

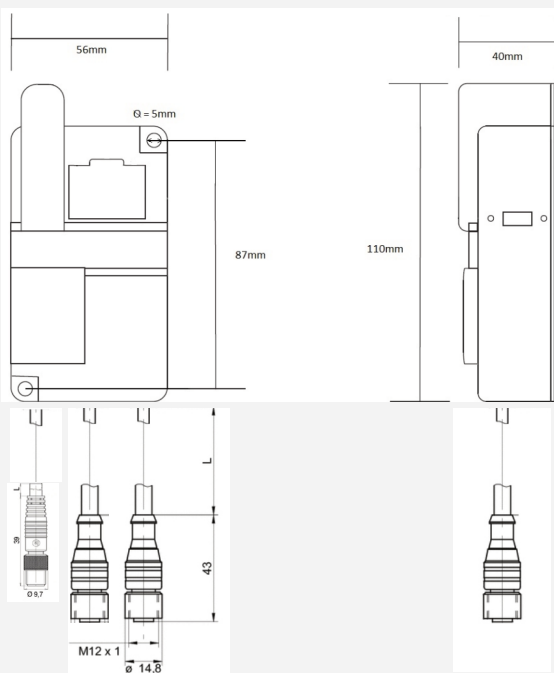
FEATURES

- ✓ Connect any meter or sensor
- ✓ IP68 Waterproof
- ✓ Rechargeable version runs directly from solar panel
- ✓ Uploads data straight to the internet
- ✓ User-friendly platform for viewing, alerts and presenting data
- ✓ Easy two wire installation with magnet swipe activation
- ✓ Integrates with BOM weather data

BENEFITS

- ✓ Long battery life
- ✓ Compact, robust, waterproof unit
- ✓ Global Coverage
- ✓ Mapping tool to display geographical location
- ✓ Interfaces available for VW sensors

PHYSICAL FEATURES



Associated products:

- ✓ Electrical Piezometers
- ✓ Linear Potentiometer Crackmeter
- ✓ Strain Gauge Load Cells
- ✓ Weather Stations
- ✓ Electrical Pressure Transducers
- ✓ MEMS Tilt Meters

View our full product range at geomotion.com.au

Note: Connector cable length L is typically 30 cm (1 ft)

EXAMPLE OF DATA PRESENTATION ON WEBSITE

op8864 - Analogue Input 1 (click here to expand graph) More row options

Parameter	Value	Timestamp
LAST	1.70 mH2O	19/11/13 00:00:00
MAX	2.83 mH2O	20/09/13 08:30:00
MIN	1.68 mH2O	18/11/13 16:15:00

Beechmont Road Landslip Remediation Water R.I. (click here to expand graph) More row options

Parameter	Value	Timestamp
LAST	289.60 mAHd	18/11/13 23:45:00
MAX	290.73 mAHd	20/09/13 08:30:00
MIN	289.58 mAHd	18/11/13 16:15:00

SPECIFICATIONS

Analogue Inputs (-ENV option)

Channels	Available in 1 or 2 Channel Versions
Type	0-20mA, 0-5V, 10K Resistance
Accuracy	0.1% (16-bit ADC)
Electrical	0-20mA, single ended
Switched power output (SPO)	200mA Max, 12V

Pulse/Counter (-ENV option)

Channels	Max 2
Open-circuit voltage	2.8V
Close circuit voltage threshold	1.2V
Input Impedance	1M Ω
Minimum Pulse Width	20ms
Maximum Frequency	25 Hz

Digital Interfaces (-ENV option)

Type	SDI-12, RS-485 (half duplex)
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Datalogger

Flash memory	3G: 4,000 Datapoints / 4G: 10,000 Datapoints
Channel sampling rate	Max 1 min per channel

Physical

Size	110mm x 55mm x 40mm
Weight	255g (9 oz)
Temperature	-5 to +60°C
Antenna connector	SMA

Temperature Probe (-TMP option)

Resolution	0.5°C
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