

Analog 4-channel

EDGE DEVICES - WIRELESS DATA LOGGERS LS-G6-ANALOG-4-MON

The Analog data logger admits most inputs from analog sensors, such as voltage, 4-20mA, potentiometer, FWB, thermistor or PT100, allowing it to easily connect load cells, strain gauges and pressure cells to the internet.

It transforms manual and sporadic data collection to a more regular and automatic process making it the most cost-effective way to capture data from any environment. It is capable of transmitting data via long-range radio to a gateway connected to the Internet up to 9 miles / 15 kilometers away. One gateway can also support dozens of data loggers in the same network through a star network topology. It has an internal C-size battery that can last up to 10 years with minimal to zero maintenance required.

The units are easy to deploy, very robust and do not require recasing as they already hold relevant certifications. The data logger is IP67 certified and tested from $-40\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$. It can also be used as a standalone logger for manual monitoring and can be easily configured and connected with a USB cable and an Android phone.





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MAIN SPECIFICATIONS

Power Supply: 5 V DC / 12 V DC / 24 V DC up to 60 mA selectable for each channel.

VOLTAGE

Measuring ranges [V DC]: ± 10 ; ± 1.25 (8x).
 Accuracy (-40 °C to +85 °C): ± 0.05 % FS.

CURRENT LOOP (2-3 WIRES)

Measuring range: 4-20 mA.
 Accuracy (-40 °C to +50 °C): ± 0.05 % FS.

POTENTIOMETER (POT)

Accuracy (0 °C to +50 °C): ± 0.02 % FS.

FULL WHEATSTONE BRIDGE (FWB)

Accuracy (0 °C to +50 °C): ± 0.1 % FS.

THERMISTOR

Accuracy (0 °C to +50 °C): ± 0.2 °C.
 PT 100
 Accuracy (20 °C): ± 0.8 °C.

MECHANICAL

Size: 145 x 220 x 61 mm
 Weight: 1100 g without batteries.

Housing Material: Aluminium alloy.
 Weather Protection: IP67.

BATTERY LIFE ESTIMATION*

Channels & Sampling	Current @12V @24mA	Current @24V @24mA	Voltage @12V @24m	FWB@5V @0.7kΩ	FWB@5V @1.5kΩ
Warm up time	1 second	1 second	1 second		
CH 5 mins	6 months	4 months	5 months	1.5 years	1.5 years
1 CH 6 hours	>10 years	>10 years	>10 years	8.5 years	>10 years
4 CH 5 mins	1.5 months	39 days	2 months	1.5 years	7 months
4 CH 6 hours	8 years	6.6 years	>10 years	8.5 years	>10 years

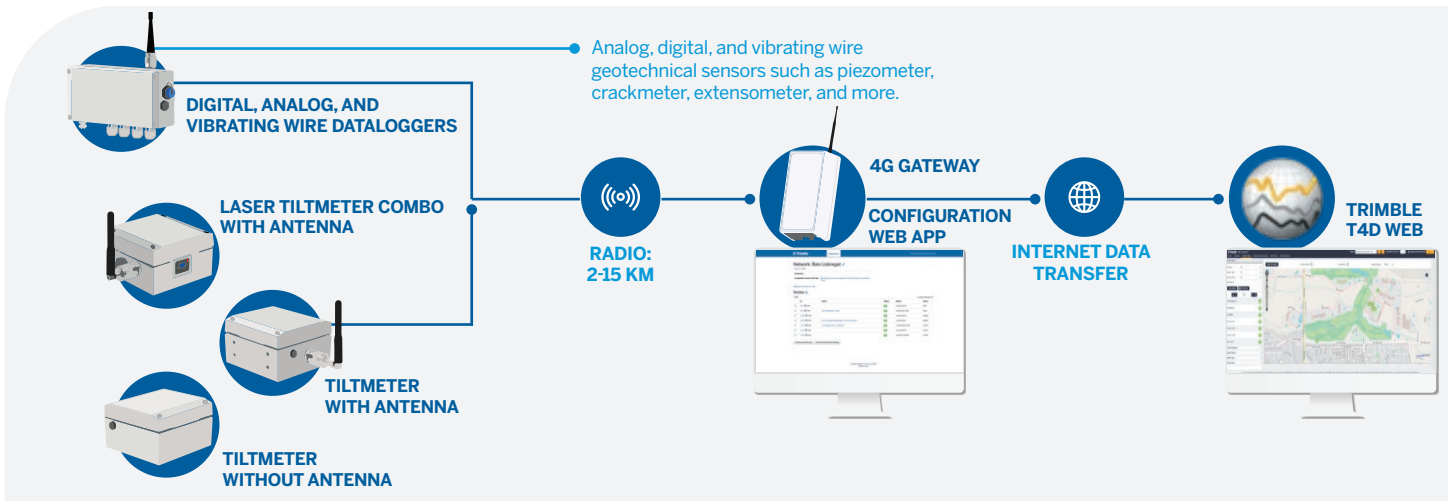
*Estimations for 4 x saft LSH 14 batteries. Considering laboratory.

ACCESSORIES

- Soft LSH 14 C-size spiral cell (LS-ACC-CELL-1C-MON).
- Data logger mobile cable (LS-ACC-MUSB-OTG-MON).
- External mounting brackets (set of 2) for wall mounting (LS-MEC-MP-MON).
- Plate for pole mounting. Includes: U-bolts and nuts for a pole diameter of less than 50 mm (LS-ACC-POLE50-MON) or of less than 35 mm (LS-ACC-POLE35-MON).

IoT-based Geotechnical Monitoring

SYSTEM INSTALLATION



Contact your local Authorized Trimble Distribution Partner for more information

NORTH AMERICA
 Trimble Inc.
 10368 Westmoor Drive
 Westminster CO 80021
 USA

EUROPE
 Trimble Germany GmbH
 Am Prime Parc 11
 65479 Raunheim
 GERMANY

ASIA-PACIFIC
 Trimble Navigation
 Singapore PTE Limited
 3 HarbourFront Place
 #13-02 HarbourFront Tower Two
 Singapore 099254
 SINGAPORE