EWS Satellite Loggers

EWS satellite loggers transmit measurements to the internet via the Iridium satellite network. Iridium's 66 cross-linked Low Earth Orbit satellites ensure reliable, low latency connectivity. Measurements sent from EWS loggers in the field can be viewed just minutes later on office and mobile web browsers.

EWS Cellular Loggers

EWS cellular loggers are identical to the satellite series but transmit measurements to the internet via 4G cellular connectivity. Compact and self-powered, EWS cellular loggers are ideal for built-up urban areas.

EWS Logger Advantages

Designed for easy deployment: EWS loggers are compact, self-powered, and ready to work right out of the box, with no need for additional components such as protective enclosures, external power supplies, or internet gateways.

Broad Compatibility: EWS loggers obtain measurements via SDI 12, Modbus 485, 4-20mA, and Pulse. Vibrating wire versions are also available.

Satellite or Cellular Versions: Choose the satellite versions for remote locations. Choose the cellular versions for built up urban areas with cellular infrastructure.

Simple Setups: EWS loggers are matched to sensor types, eliminating complex wiring and programming. Loggers can be pre-configured at the office or configured on-site via a phone app. Two-way communications allow remote configuration changes.

Alarm Detection: Alarm threshold values can be set on any input and alarms can be sent at any time. The Switch and EMT loggers also include a relay that can activate pumps or warning devices.

Designed for Harsh Environments: EWS loggers are rated IP67 or better for water resistance and operate in temperatures from -20 to +60 °C.

Illustrations and specifications courtesy of EWS Monitoring.

The EWS Switch and EMT loggers work with 4-20mA analog sensors and modbus 485, SDI-12 digital sensors.

The EWS Dual, Quad, and Octo loggers work with 2, 4, and 8 vibrating wire sensors.

Switch & EMT Specifications

Communication Option

Specify Satellite or Cellular
when ordering.

Switch Inputs

2 analog sensors or
2 digital sensors or
1 analog and 1 digital sensor

EMT Inputs

2 analog sensors or
4 digital sensors or
2 analog and 2 digital sensors

4-20mA analog

Range: 0-20 mA
Sensitivity: 7 µA
Accuracy: 0.5%

Pulse Counter analog

Pulse Width: 0-500 Hz

Modbus 485 digital

Range, sensitivity, accuracy depends on the sensors.

SDI-12 digital

Range, sensitivity, accuracy depends on sensor.

Relay Output

Voltage: 12 ±10%
Current: 0.265A

Measurement Intervals

1 second to 24 hours.
Memory Capacity
260,000 readings.
60 Channels

Configuration

Desktop: USB wired connection
Mobile: Bluetooth via EWS Lynx

Environmental

Temp Rating: -4 to 149 °F (-20 to 65 °C)
Water Rating: IP67

Dimensions

Switch: 2.6 x 1.7 x 5 in (66 x 43 x 126 mm)
EMT: 7 x 4.3 x 3.2in (175 x 110 x 80 mm)

VW Logger Specifications

Communication Option

Specify Satellite or Cellular
when ordering.

Sensor Inputs

"Dual" DVWT - 2 sensors
"Quad" QVWT - 4 sensors
"Octo" OVWT - 8 sensors

VW & Temp Measurements

VW Excitation: 5V to 12V automatic
VW Sweep Freq: 450 to 6000 Hz
VW Accuracy: ±0.1% FS
Temp Accuracy: ±0.1 degrees

Measurement Intervals

2 seconds to 24 hours

Memory Capacity

260,000 readings

Configuration

Desktop: USB wired connection
Mobile: Bluetooth via EWS Lynx App

Environmental

Temp Rating: -4 to 149 °F (-20 to 65 °C)
Water Rating: IP67

Dimensions

Dual: 7 x 4.3 x 3.2 in
Quad & Octo: 4.5 x 7x 2.5 in

EWS Lynx Mobile App

All EWS devices are activated with a push button and easily configured using the EWS Lynx mobile app for iOS and Android.

EWS Tiltmeter Specifications

The "TMT" tiltmeter logger has a built-in 3-axis MEMS tiltmeter and can be deployed horizontally or vertically.

Communication Option

Specify Satellite or Cellular
when ordering.

MEMS Triaxial Accelerometer

Range: -5 to +5°
Resolution 0.0001°
Sensitivity: 0.001°
Repeatability: ± 0.002°

Measurement Intervals

2 seconds to 24 hours

Memory Capacity

260,000 readings.

Configuration

Desktop: USB wired connection
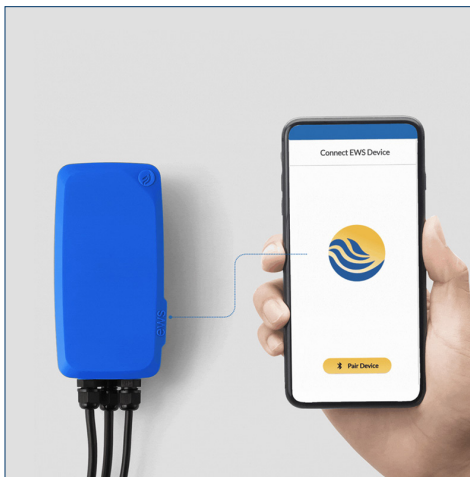Mobile: Bluetooth via EWS Lynx App

Installation

Horizontal or Vertical

Environmental

Temp Rating: -4 to 149 °F (-20 to 65°C)
Water Rating: IP67

Dimensions

4.5 x 7 x 2 inches (113 x 182 x 49 mm)