

## 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.



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.

Illustrations and specifications courtesy of EWS Monitoring.

## 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  $\mu$ A  
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  $\pm$ 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:  $\pm$ 0.1% FS  
Temp Accuracy:  $\pm$ 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 7 x 2.5 in



## 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:  $\pm$  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

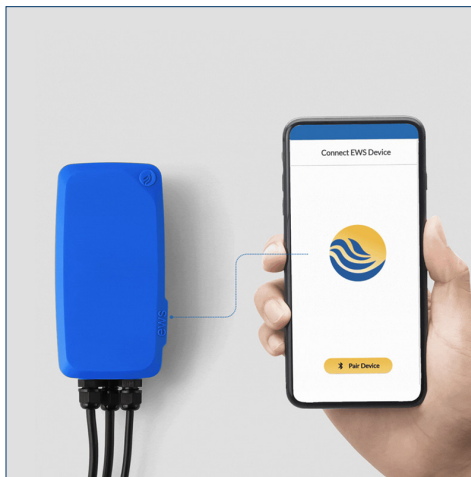
Horizontal or Vertical

### 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)



## 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.