

EWS Switch

The EWS Switch is an IoT device that collects and transmits measurements from the field to the Cloud. It works with a wide variety of sensors and loggers.

Typical environmental applications include monitoring water level and water quality sensors, flow meters, weather stations, and rain gauges.

Typical geotechnical applications include monitoring sensors directly and also serving as the communications module for data loggers and controllers.

Features

Global coverage: Choose the 4G LTE version for sites with good cellular coverage. Choose the Iridium satellite version for extremely remote sites.

Broad compatibility: The Switch accepts measurements via SDI 12, Modbus 485, 4-20mA, and Pulse. A vibrating wire version of the Switch is also available.

On-board memory: The Switch stores up to 260,000 measurements.

On-site configuration: Configure by phone using the Apple or Android Bluetooth app. Configure by laptop with the USB connection. Or just plug and play with some helpful assistance from Geo-Instruments.

Remote configuration: Two-way comms allow settings such as reading frequency to be changed remotely via cell or satellite.

Alarm detection: Set a threshold value on any input. This works with the built-in relay.

Built-in relay: The relay provides a way to turn on pumps or trigger warning devices, either programmatically or manually.

Battery powered: The Switch can operate for extended periods on its rechargeable battery and even longer on its high capacity replaceable logger. It also accepts external power from a solar panel or a 12-24V power source.

Designed for harsh environments: The Switch is rated IP68 for water resistance and operates in temperature from -20 to +60 °C.



Green EWS Switch uses a replaceable high capacity 14000 Ah Li-SOCI2 battery.

Blue EWS uses a rechargeable 3000 Ah Li-Ion battery. It also accepts external power from a solar panel.



EWS Vibrating Wire Switch is available in 2,4, and 8-sensor versions. Fully adjustable pluck and sweep parameters ensure compatibility with VW sensor.



Well Cap Switch for ground-water monitoring. Supports the weight of the sensor cable and also flips out of the way for sampling, etc.