EWS AUTOMATIC
WEATHER STATION

The AWS is supplied with a preconfigured set of sensors for Air Temperature, Relative Humidity, Barometric Pressure, Wind Speed, Wind Direction, Rainfall, and Solar Radiation.

EWS have always strived to improve value for money but at the same time provide a better-quality AWS for every client in mining, agriculture and industry.

The Weather Station is supplied with a 3m tripod style mast that is bolted to 3 small blocks during the installation.

The station is preconfigured prior to delivery, but can also be configured either on site via the SwitchComm App through Bluetooth, or remotely over OTA.

EWS Switch datalogger with integrated Iridium or 4G modem

The EWS Switch Datalogger is a revolutionary integrated monitoring solution. Connect the datalogger to any compatible AWS, meter or sensor with coverage (4G) or anywhere in the world using iridium and continuously monitor data with only a 5W solar panel. The AWS, meter or sensor readings are automatically transmitted to your hosting page to view all your environmental data online or on the go. Get upto 15min logged data from the most remote locations anywhere in the world via the Switch iridium datalogger.

SPECIFICATIONS

Specifications subject to change without notice.

MEASUREMENT	
Measurement Interval	1 second to 24 hours
Number of Devices	10 devices supported
Number of Stored Measurements	2 years @ 1 hour logging
COMMUNICATIONS / INTERFACE	
Telemetry	
Number Available	Single channel either Iridium SBD or LTE Cat NB1
MODBUS	
Number Available	Single powered bus with up to 10 addressable devices
Type	RTU
SD1-12	
Number Available	Single powered bus with up to 10 addressable devices
4-20mA Analogue	
Number Available	Up to 2 (shared with pulse on same port)
Range	0mA to 25mA
Sensitivity	7μA
Accuracy	0.50%
Pulse Input	
Number Available	Up to 2 (shared with 4/20mA on same port)
Pulse Width	5ms to 1 sec
Polarity	Active low
Relay driver output	
Voltage	+12V +/- 10%
Current	0.2A
Polarity	Active low
OTHER FEATURES	
Processor	32 bit Arm Cortex M4 processor
Clock	Internal real-time clock w/battery backup
Reed Switch	Swipe to activate
Connectivity	USB/Blue Tooth
ELECTRICAL	
Input Voltage	+12.5V to +24V
Battery	Rechargeable +7.4V, 1.8A/hr or non-rechargeable +9.2V, 1.4A/hr *Extender pack available
Current Consumption	0.1mA standby type (all sensors unpowered)
Iridium Transmission	0.7A @ +12 Volts
Power Connection	M8 connector
SDI-12 Port	M12 connector or 3 position terminal strip
Modbus	M12 connector or 2 position terminal strip
Red Warning LED	Indicates operation error / Transport Mode
Green Heartbeat LED	Indicates unit operating properly / TX mode
Blue Interface LED	Indicates interface communication
MECHANICAL	
Dimensions	L 115mm x W 54mm x D 43mm
Weight	205 grams
ENVIRONMENTAL	
IP Rating	IP66
Temperature	-20ºC to +60ºC functionality
Humidity	0-95% Non-condensing