EVS Well-Cap Environmental IoT Device.



Environment • Water • Geotechnical • Data





EWS Well-Cap Environmental IoT Device

Overview.

The **EWS Well-Cap** leverage the power and reliability of our Switch Data logger family to deliver a cost-effective, self contained package for simplifying **Groundwater Monitoring**. Made from extremely robust glass filled nylon with a lockable hasp, the Switch device sits safely within the top section and can be easily configured via our Bluetooth mobile app.

The Well-Cap offers hassle-free and quick installation, simply connect to the sensor, place over the monitoring bore and fix in place with lock screws. Different adapters allow it flexibility to fit to any bore diameter and the flip back lid provides easy access to the bore after install for pump sampling events or calibration dips.



Features.

- Multi-Communications options; Send data via Satellite (Iridium) or 4G L TE.
- Reads SDI12, Modbus485, 4-20mA, Pulse sensor protocols.
- Robust Glass-filled nylon material.
- Lockable hasp for added security
- External battery pack or solar options.
- Flip top lid for easy access to the bore.
- Sensor hanger to support the weight of the sensor cable.
- Fits standard 50mm or 120mm diameter bores.
- Adapters available for all bore sizes.
- Ultra-Low power draw with internal battery backup.
- Configure using Bluetooth mobile app (available on Apple and Android).
- Remotely change settings with two-way communications including via Iridium.
- Compact form factor, entire package: diameter 160mmx180mm.
- Rugged and robust for harsh environments.



Benefits.



- Simplifies remote groundwater monitoring.
- Connects to all standard environmental sensors.
- Secure and lockable for deployments in public areas.
- Maintain easy access to the borehole.
- Compact and discreet, reducing installation time and footprint.
- Designed and Manufactured in Australia.
- Rugged and robust deigned for harsh remote environments.
- Plug and play setup on-site.
- Very straightforward and scalable for fast deployments and large monitoring roll outs.
- Perfect for new and retrofit instrumentation projects.

Specifications.

Mechanical				
Size	Diameter I60mm	Height 180mm		
Weight	900g			
Environmental				
Operating Temperature	-20 °C to 60 °C			
Storage Temperature	-40 °C to 65 °C			
Humidity	5 to 95% Rel			
Power				
External Power Supply Inp	ut			
Input Voltage	12		24V	
Input Current	700mA			
Internal Battery (Recharge	able)			
Chemistry	Lion			
Terminal Voltage	6.8	7.8	8.4V	
Capacity	1.8/4.8 Ahr			
Internal Battery (Non-Rech	argeable)			
Chemistry	LiMnO2			
Terminal Voltage	6.8	7.8	8.4V	
Capacity	4.8 Ahr			
Sensor Power Output				
Output Voltage	11	12	13V	
Output Current	500 mA			
Digital Output				
Output Voltage	11	12	13	
Output Current	500 mA			
Storage				
Non-volatile-Log				

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Specifications subject to change without notice.

4MB

256000 Events

Size

Events

Specifications.

Clock				
RTC				
Accuracy	-10 to 70°C	20	70ppm	
Network Time Sync Support	t			
Supported Networks	Iridium	Cellular		

External Sensor Inputs		
Serial - RS485 Modbus		
RTU		
Baud Rate	300	230400 Baud
Parity	N/E/O	
Serial - SDI12		
Analogue - 4-20mA	(2)	
Current Loop		
Accuracy	0.5 %f.s	
Digital - Pulse counter	(2)	
Input Voltage	1	5V
Frequency	3 kHz	

	Buil	t-In	Senso	r Ch	anne	ls
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Barometer - Pressure			
Range	10	1200 mbar	
Accuracy	25° C, 750 mba	-1.5	+1.5 mbar
Barometer - Temperature	e		
Range	-40	85 ° C	
Accuracy	-0.8	+0.8 ° C	
Battery Voltage			
Supply Voltage			
Radio Signal Strength			
Microprocessor			
Temperature			

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Specifications subject to change without notice.

Specifications.

Telemetry Radio Support		
Iridium		
Protocols	Short Burst Data	
Coverage	Worldwide	
4G Cellular LTE-M/NB-I	т	
Protocols	MQTT	
Email		
Network Support	Telstra (Aus) and most major networks globally	
Coverage	4 million Sqr km	

Bluetooth Support	
Bluetooth Standard	5.0
Data Rate	2.S kbps

Specifications subject to change without notice.

Contact us

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