

- Compatible with all LoRaWAN® frequencies
- Wide range of industrial applications
- Designed to meet outdoor applications
- Long-term durable performance in harsh environment
- Ultra-low power



TECHNICAL SPECIFICATION

8	Δ	n	9	n	r

•	Interface Configuration	Input for Voltage and for Current • Voltage measurement range: -10 to 10V _{DC} & AC		
	-			
		 Voltage resolution 0.1mV resolution 		
		 Current measurement: 0-20 Amps DC & A 	С	
		(or other customised options on request)		
•	Voltage Resolution	0.1	mV	
•	Current Resolution	1	mΑ	
•	Electric Connection	1m cable, pin connection (or others on request)		
•	Operation Temperature	-10 ~ +70	°C	
Pow	er			
•	Power Supply	Built-in Replaceable Lithium Battery, External		
		Power (option)		
•	Rated Voltage	3.6	V	
•	Battery Lifetime	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)		
Phys	sical			
•	Materials	ASA or POM		
•	Weight	450	g	
•	Protection Rate	IP66 or IP68 and UV Protected enclosure		
Com	munication			
•	LoRaWAN® Version, Class	1.0.2revB, Class A (Class C on request)		
•	LoRaWAN® Frequency Zone	AS923, EU868, US902-928, AU915-928		
		(other zones available on request)		
•	LoRaWAN® Activation Type	OTA (default), ABP	OTA (default), ABP	
•	Sampling Type	Periodic (default), Event triggered		
•	Sampling Period	Configurable via downlink (default 4 hours)		
•	Transmission Type	Per sample (default), Event triggered, Conditional		
•	Parameter Configuration	Over-the-air via LoRaWAN® downlinks		
		Locally via serial terminal		
•	Firmware Update	Locally via serial terminal, Over The Air		



NETWORK CONNECTION AND VISUALISATION

Network Integration

 Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, Helium, Kerlink, kpn, Loriot, machine-Q, Objenious, Orange, Orbiwise, Proximus, Senet, Sens, Swisscom, TATA, The Things Network(TTN), TTI and any other network)

Visualisation And Data Management

 Ellenex white label microservice platform, and Integratable to all main IIoT platforms directly or through the api (AWS, Azure, PTC ThingWorx, Bosch IoT, Cisco Jasper & Kinetic, Sierra Numerex, MathWorks, ThingSpeak, GE Digital Predix, LandisGyr, Siemens MindSphere, Cumulocity, myDevices, Ubidots, TagoIO, AllThingsTalk, HPE IoT and any other major IoT platform).

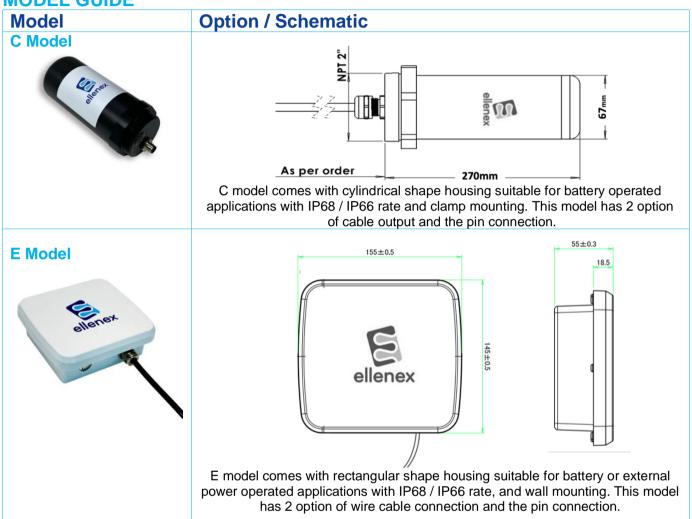
Ellenex Platform Main Features

- Encrypted ultra-low power communication protocol
- Advanced device inventory
- Integration APIs for enterprise systems
- Multi-tenant role-based access control
- Data export and import
- White-label platform for enterprise runs on private account
- Variable alarm setting for high and low thresholds and multi-channel alerting
- Sampling and transmission interval configuration
- Transmission condition configuration
- Other configurations and customisation available on request





MODEL GUIDE



INDUSTRIES



APPLICATIONS

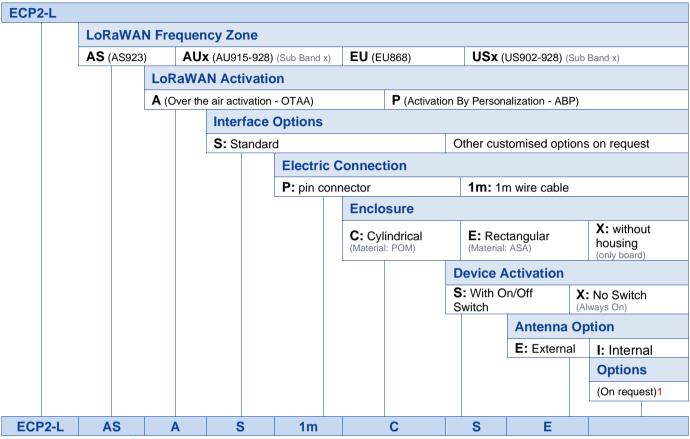
Pipes and assets cathodic protection monitoring

WIRING LAYOUT

RED: Voltage InWHITE: Current InGREEN: Current Out



ORDERING CODE



Sample Product Code:

• ECP-L-AS-A-S-1m-C-S-E

LoRaWAN® Cathodic protection monitoring interface, frequency of AS923, Over The Air Activated, standard configuration with cylindrical housing, 1m cable, with on-off switch and equipped with external antenna.

1) Product Options:

- EP: sensor with external power supply connector for 12V supply (only for E type enclosure, adaptor is not included)
- **EPB**: connector for 12V supply with internal battery backup (only for E type enclosure)
- HG: high-gain external antenna
- HCB: high-capacity battery (only for E type enclosure)