



POWER-ADAPT

by  ECO-ADAPT

Datasheet - Connectivity



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LoRa antennas and cable extensions

The antennas guarantee LoRa connectivity for Power-Elec meters. They are connected to the Power-Elec via SMA connector and are fitted with a 2.5m cable to be mounted on top of the electrical cabinet. They are available in high or standard sensitivity.



Characteristics			
	ANT-868STD	ANT-868HF-MAG	ANT-868HF-FIX
Type	Quarter wave	Quarter wave	Half wave
Frequency range	824-960/1710-2170MHz	698-960/1710-3800MHz	698-960/1710-3800MHz
Max gain	2dBi	+3dBi	+4dBi
Polarization	Vertical	Vertical	Vertical
Directivity	Omnidirectional	Omnidirectional	Omnidirectional
Connector	RG-174/SMA Male connector	RG-174/SMA Male connector	CS29/SMA Male connector
Dimensions (mm)	87x27, 3m cable	95x54, 2m cable	H:82, Bracket base : 60x48, H Bracket : 82, 5m cable
Mounting	Magnetic	Magnetic	Wall
Environment	Indoor/Outdoor (SMA not incl)	Indoor/Outdoor (SMA not incl)	Indoor/Outdoor (SMA not incl)

Antennas' cable extensions enable antennas to be moved to locations offering better network quality, particularly outdoors.

Characteristics		
	RAL-ANT-5M	RAL-ANT-10M
Type	RG-58	RG-58
Length	5m	10m
Connectors	SMA M/F	
Environment	Outdoor (connector not incl)	

Passerelle LoRa

LoRa gateway enables all sensors in the range (Power-Elec-6, PowerPulse, etc.) to connect to the LoRa Eco-Adapt network. It can be accompanied by a wall-mounted, high-sensitivity LoRa antenna to guarantee optimum coverage.



LoRaWAN	
Frequency plan	EU868
Channels	8 (half/full-duplex)
Sensitivity	-140 dBm at 292 bps
Max gain	27 dBm
Protocol	V1.0 Class A/B/C & V1.0.2 Class A/B/C
Antenna	2 internal antennas or 1 external antenna (Female N connector)

Ethernet	
Port	1x RJ45 (PoE PD supported)
Speed	10/100/1000 Mbps
Interface	Auto MDI/MDIX
Mode	Full/Half-duplex

Cellular Network	
Technologies	3G/4G
Antenna	Intern

Other	
Power Supply	9-24VDC, 100-240VAC 50/60Hz power supply included or 802.3 af PoE input
Consumption	<4.2W
Dimensions	180x110x56,5 mm
Weight	670g
Mounting	Wall mounting or Mast mouting
Operating conditions	-40°C/+70°C
Humidity conditions	0-95% (with no condensation) at 25°C
Environment	Indoor/Outdoor (IP65)
Certification	CE, FCC, IC

Modbus Adapters

The PE-USB-ETH adapter can be used to cascade Power-Elec units, reducing the number of network cables to be installed.



Characteristics	
Bus	Ethernet
Protocol	TCP/IP
Data rate	100Mbps
Connectors	A-type male USB, Female Ethernet
Dimensions	105x56x17 mm

The PE-USB-485 adapter enables Modbus RS485 connectivity to the USB port of the Power-Elec control unit.



Characteristics	
Physical bus	RS485
Protocol	Modbus RTU
Data rate	9 600, 19 200, 38 400, 57 600, 115 200 bit/s
Parity	None, Even, Odd
Cable type	UL2464 AWG24
Connectors	A-type male USB, bare wires
Dimensions	Length 1.8m, diameter 5mm

Contact us



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