







SMART METERING

SMART BUILDING

SMART

SMARTPLUG



SMARTPLUG is a LoRaWAN® Class C smart device that monitors and controls plugged equipment. It monitors and sends reports about power line quality.

APPLICATIONS

- Switch on/off devices Local and Remote Control.
- Remote Power Scheduling Easily create On/Off schedules for your devices with your application.
- Load Curve Report & Usage Statistics Monitor & report power/energy consumption of connected devices.
- Quality statistics Monitor & report power line voltage and frequency.

BENEFITS & KEY FEATURES

- LoRaWAN®, Class C.
- Easy to use and deploy.
- Up to 3500W 16A switch On/Off capability.
- Monitor and report Power/Energy/Voltage/Frequency.
- Socket types E, F and G available.





Non contractual picture Sensors delivered without WATTECO marking

QUALITY & RELIABILITY

RED, RoHS

The Class C LoRaWAN® **SMARTPLUG** from Watteco is a compact, multi-purpose and easy-to-use device that is used to monitor and control other devices from any LoRaWAN® network.

SMARTPLUG allows a connected device to be switched on/off instantly or according to a schedule thanks to your IoT application.

3 versions of SMARTPLUG are available:

- Type E (Fr)
- Type F (EU)
- Type G (UK)

The embedded multifunction meter continuously measures active/reactive power and energy. It also provides power quality measurements such as average/min/max voltage (rms/peak) and frequency.

If the variation of one of the quality parameters (frequency, voltage) is greater than the threshold set by the user, a "change over variation" or CoV report is automatically generated to track and analyse power line disturbances.

The measured parameters can be locally stored, concatenated and compressed. This unique batch mechanism significantly reduces the amount of data transmitted for demanding applications such as load curve reporting.

THE LARGEST IOT PRODUCTS RANGE FOR YOUR PROJECT

WATTECO is a European leader in the design and manufacture of smart IoT devices to suit all remote reading and data collection solutions.

WATTECO is a LoRa Alliance® member.

CE Z ROHS



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SMARTPLUG

TECHNICAL DATA

RADIOFREQUENCY	Frequency (MHz)	Transmit Power (dBm) Receiver Sensitivity (dBm)
	863-870	+14	-140
FIRMWARE			
Protocol	LoRaWAN®, Cla	ass C	
Activation method	Activation by Pe	ersonalization (ABP) or Over-T	The-Air Activation (OTAA)
Data encryption	AES128		
Application layer	ZCL (ZigBee Cli	uster Library) – to be interpret	ed by the remote server
Measurements & Transmission cycle	es Configurable fro	m 10 minutes to 24 hours	
Data compression	Yes (differential	coding)	
POWER MEASUREMENTS			
Active / Reactive power resolution	1 W / Var		
Active / Reactive energy resolution	1 W.h / Var.h		
Power accuracy	<1% above 100 >2,5% below 10		
QUALITY LINE INDICATOR			
Frequency	Current/min/max	x values	
RMS Voltage	Current/min/max	x values	
Overvoltage	Number of occu	rrence the voltage exceed the	e overvoltage threshold
Sag	Threshold" for a	Number of occurrence the main voltage is lower than the "Sag voltage Threshold" for at least the number of half cycle defined by the "Sag cycle Threshold" attribute	
POWER SUPPLY	Operating Voltage	Frequency	Max load capacity
	100 250 VAC	50 – 60 Hz	16A/250VAC
USER INTERFACES		LED	Push Button
	Configuration a	and network pairing	Reset, ON/OFF
ENCLOSURE Size	(mm) IP rati	ng	SOCKET types
62 x 1	14 x 40 IP20	Type E (Fr)	– Type F (EU) – Type G (UK)
ENVIRONMENT	Operat	ing temperature	Storage conditions
	-20	°C to +50°C	0°C to +50°C +20%rH to +60%rH
DIRECTIVES & STANDARD			

PRODUCT NUMBER

Radio Equipment Directive 2014/53/EU, RoHS

REFERENCE	DESCRIPTION
50-70-003	LORAWAN® SMARTPLUG FR
50-70-020	LORAWAN® SMARTPLUG EU
50-70-021	LORAWAN® SMARTPLUG UK