WATTECO

SMARTPLUG

SMART BUILDING

SMART

METERING

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.

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.

Non contractual picture

Sensors delivered without WATTECO marking

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.







INDUSTRY

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SMARTPLUG

TECHNICAL DATA

RADIOFREQUENCY	Frequency (MHz)	Transmit Power (dE	Bm) Receiver Sensitivity (dBm)	
	863-870	+14	-140	
FIRMWARE				
Protocol	LoRaWAN [®] , Cla	LoRaWAN [®] , Class C		
Activation method	Activation by Pe	Activation by Personalization (ABP) or Over-The-Air Activation (OTAA)		
Data encryption	AES128	AES128		
Application layer	ZCL (ZigBee Clu	ZCL (ZigBee Cluster Library) – to be interpreted by the remote server		
Measurements & Transmission cycle	s Configurable fro	Configurable from 10 minutes to 24 hours		
Data compression	Yes (differential	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	Current/min/max values		
RMS Voltage	Current/min/max	Current/min/max values		
Overvoltage	Number of occu	Number of occurrence the voltage exceed the 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 11	4 x 40 IP20) Type E (F	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				
Radio Equipment Directive 2014/53/EU, RoHS			CE 🗷 📈	

PRODUCT NUMBER

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



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LoRaWAN® SMARTPLUG sensor – V4.6 Updated 30/05/2022 - This document is the property of WATTECO. The information contained within is not contractual and may be modified without prior notice