

# **N2G-SP SMART PLUG USER MANUAL**



**NET2GRID**



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## 1. SYMBOLS



: Caution! Risk of danger (see Safety Information)

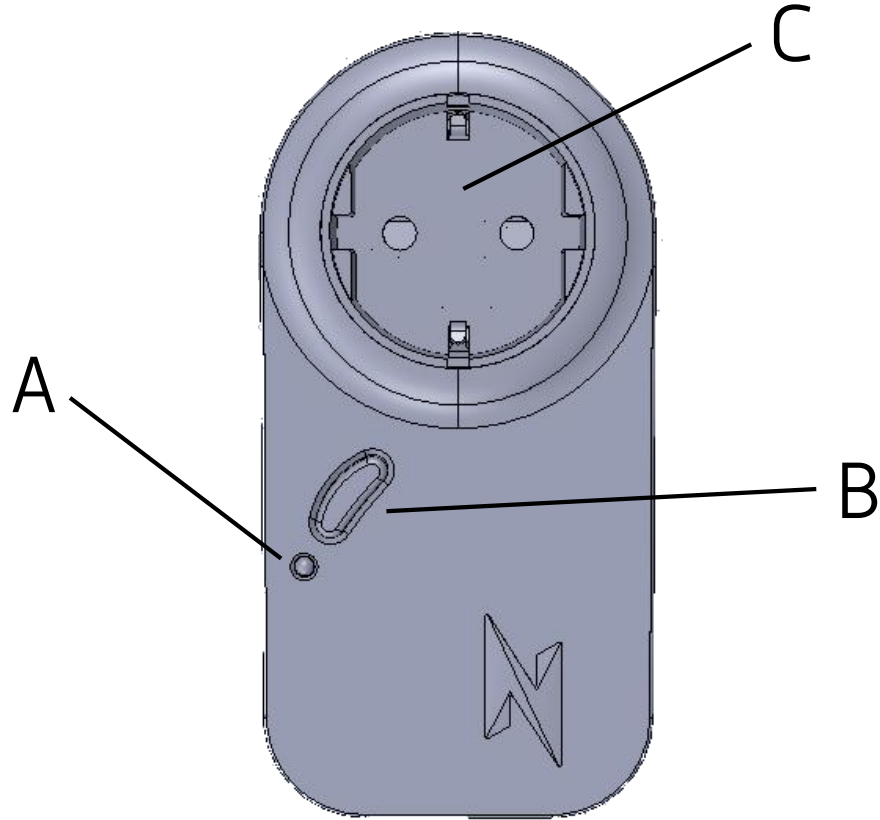
## 2. CAUTION AND SAFETY INSTRUCTIONS

- Read these instructions carefully before use and keep it in a safe place for future reference.
- For indoor use only!
- All manual / safety instructions and electricity supplier's regulations must be followed. Otherwise it may cause accidents or damage the Smart Plug.
- Only connect the Smart Plug to a 230-volt A/C power source with circuit breaker or over current protection device.
- Do not install this unit at an altitude of over 2000 metres.
- The Smart Plug should only be used in dry and clean environment. Do not place the unit in bath room or other area with excessive moisture.
- Do not expose the unit to temperatures below  $-10^{\circ}\text{C}$  or above  $40^{\circ}\text{C}$ , humidity above 95% non-condensed.
- Do not operate the Smart Plug with AC voltage fluctuations of more than  $\pm 10\%$ .
- Clean the unit with a dry, soft cloth. Do not use solvents or aggressive cleaning agents.
- This device is designed for household usage only, not suitable for commercial and industrial use.
- Any modification or use other than described may damage the unit and will void the warranty.
- If there are any malfunctions appeared during the operation of the Smart Plug, switch of the mains and unplug the Smart Plug in safety situation.
- There is no service part inside the Smart Plug, repairing should be performed only by authorized service centre or qualified personnel.



### 3. START HERE!

- A. Status LED
- B. On/Off button
- C. Output outlet



### 4. CONNECT THE SMART PLUG TO THE NETWORK

1. Plug the Smart Plug into a 230V wall socket. Make sure the wall socket is turned on.
2. Every time the Smart Plug connects to the mains power, it will start search for the remote server network which it had joined successfully before.
3. If device never join any network, it will scan all the channels every 1 minute and will try to join any available network. If no network can be found in 15 minutes, it will scan for network once every hour.
4. If the Smart plug can join the network successfully, it is ready to use.
5. The LED indications can be referred to the section "LED indicator" below.



### 5. FIND ANOTHER NETWORK

In case the Smart plug has to join another network:

1. Press and hold the ON / OFF button for 5 seconds until the LED flash with Green and Red alternatively.
2. The Smart Plug will leave the current network and restart searching for another network. Once the Smart Plug finds an available network which is allowed to join, the Smart Plug will try to join the network automatically.

### 6. TURN THE SMART PLUG ON AND OFF

The replay of the Smart Plug can be controlled locally by pressing the ON / OFF button. The LED will indicate the status of the relay. Please refer to the section "LED Indicator" below.

Note: Pressing the ON/OFF button on the Smart Plug will only switch on/off the output socket. It will not turn off the Smart Plug itself.

### 7. LED INDICATOR

There is one LED indicator on the unit. It's a dual-color (green and red) LED on the device to indicate the following status:

Network Status	Relay	LED Status
Joined	On	Solid green LED
	Off	No LED
Unjoined	On	Green LED lit 4 seconds, red LED lit 1 second
	Off	LED off 4 seconds, red LED lit 1 second

### 8. RESET

To reset the Smart Plug, simply unplug and re-plug it from the wall socket.



## 9. SPECIFICATIONS

<b>System</b>	
Type	On/Off switching Plug unit with power consumption measurement Power socket with Neutral, Live and Ground
Plug and Socket type	Schuko Plug for Germany and some other countries in Europe
<b>Power rating</b>	
A/C power	230VAC+/-10%, 50/60Hz
Switching capacity	230 V AC, 16A resistive
Standby Power Consumption	N/A
<b>Power measurement</b>	
Accuracy	+/- 3% @ Power >90W Resistive load (Comply to IEC 62053-21 accuracy requirement)
Mini. Measurable power	5 W
<b>Communication</b>	
RF Frequency	2.40 GHz license-free band, (Comply with IEEE802.15.4)
Output power	Maximum 14dBm to meet R&TTE regulation
Receive sensitivity	-98dBm typical
Range	400M (1300 ft) line of sight
Communication protocol	ZigBee™ Pro with HA profile – supports simple metre clusters
<b>User interface</b>	
Dual-color LED (Green and Red)	Indicate on/off status, network status and problem status
Button	Disjoin network or toggle on/off switch
<b>Operation ambient</b>	
Operating temperature	-10 - 40 °C
Storage temperature	-20 -70 °C
Operating humidity	10-95% non-condensed
<b>Agency Approval</b>	
Approval	CE, R&TTE
<b>Dimension</b>	
Size	62x124x79.5mm
Weight	156.4g