ROWI 2

Smart Plug with **Open REST API**

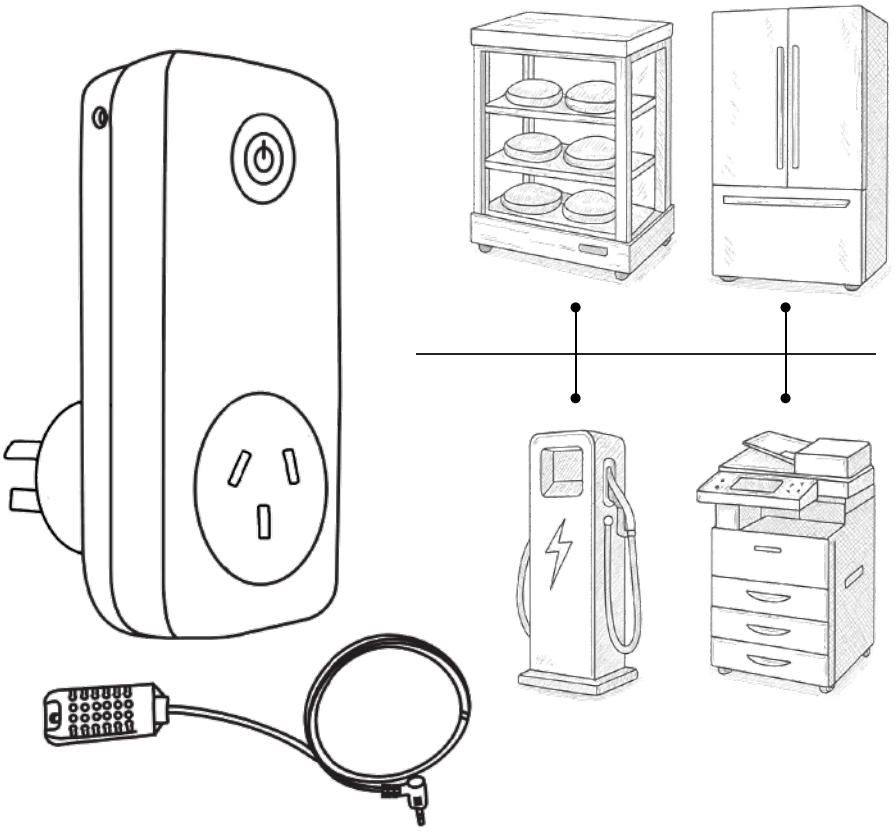
LOCAL CONTROL | FULL TRANSPARENCY | UNLIMITED FLEXIBILITY

Designed for developers, integrators, and smart home enthusiasts, our Smart Plug puts you in full control—without relying on the cloud. Connect via local Wi-Fi and take charge with our open REST API, giving you the freedom to:

- *Turn connected equipment on/off*
- *Monitor real-time power consumption*
- *Track temperature and humidity*

Whether you're building a smart home, automating a greenhouse, or deploying environmental monitoring solutions, this product is engineered for reliability and adaptability.

Choose the developer version for custom API integration, or go plug and play with the Home Assistant/ESPHome firmware edition for instant compatibility with popular smart home platforms.



Applications:

- **Smart buildings**
- **Smart appliances**
- **Greenhouse automation**
- **Environmental monitoring**
- **Energy usage analytics**
- **Remote control of appliances**
- **Connected appliances**
- **Edge computing and AI**

Perfect for:

- **IoT developers**
- **System integrators**
- **Smart home enthusiasts**
- **Building automation engineers**
- **Industrial IoT innovators**
- **AI and ML engineers**
- **Agritech professionals**

Specifications:

WiFi	2.4 GHz 802.11b/g/n
MCU	Espressif ESP32
Mains voltage	90-240V
Max. current	10A-16A depending on region
Temp. sensor	-1 ... 35 ±0.5 °C
Humidity sensor	5 ... 95 ±3.0 %RH
Energy accuracy	±2.4W
Dimensions	53 x 119 x 64 mm
Weight	150g
Compliance	AS/NZS, CE
IP rating	IP20
Communication	HTTP, HTTPS, MQTT, REST
Integrations	Home Assistant, ESPHome

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Smart Plug with **Open REST API**

OPTIONAL ADD-ON FEATURES AVAILABLE

Not included in standard package

+ Custom Cloud Integrations via MQTT

Enable seamless cloud connectivity using MQTT for real-time data transmission to your preferred IoT platform or private cloud infrastructure.

+ Additional Sensors (e.g., CO_2)

Expand functionality with support for extra sensors such as CO_2, enabling more detailed environmental monitoring and control.

+ Edge Computing & AI at the Edge

Run custom logic or AI models directly on the device to enable real-time, offline decision-making and reduce cloud dependency.

+ BLE Gateway Functionality

Use the device as a Bluetooth Low Energy (BLE) gateway to connect and relay data from nearby BLE sensors to your local network or cloud.

+ Home Assistant / ESPHome Integration

Enjoy seamless plug-and-play compatibility with Home Assistant and ESPHome for easy smart home automation and integration.

Made for ESPHome

Home Assistant

**Optional features are available upon request and might incur additional charges. Contact us for more information.*

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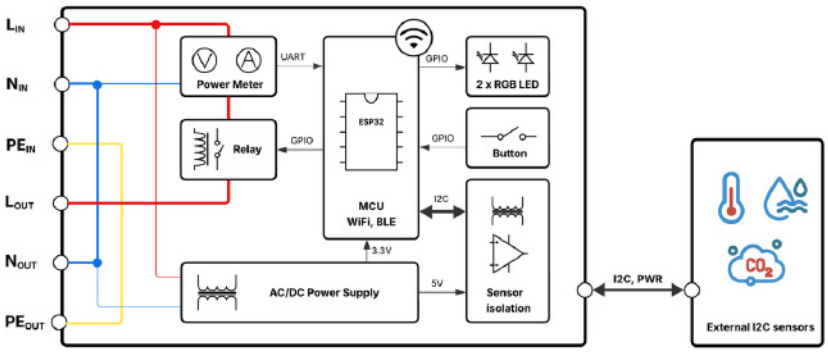
SYSTEM ARCHITECTURE



COMPLIANCE

EMC	RADIO	SAFETY
EN 55032	*ETSI EN 301 489-1 V2.2.3*	*EN IEC 62386-1*
EN IEC 61000-3-2	*ETSI EN 301 489-17 V3.3.1*	*AS/NZS 62386-1*
EN 61000-3-3	*ETSI EN 300 328 V2.2.2*	*DIN VDE 0620-2-1*
EN 55035	*EN 50665*	*DIN VDE 0620-1*
	EN IEC 62311	*AS/NZS 3112*

REST API

Command	Type	Short description
/ping	GET	Checks if the device is alive and responsive
/getTemperature	GET	Returns device and ambient temperatures
/getRelayStatus	GET	Returns the current status of the relay (on or off)
/getSystemInfo	GET	Returns all settings and vital details about Rowi
/getPowerMeterData	GET	Returns info related to power consumption
/setRelayStatus	POST	Switch on/off relay
/setPermanentRelayStatus	POST	Switch on/off relay and store status in flash memory
/updateFirmwareAndReset	POST	Checks for and installs upgrades
/reboot	POST	Reboot Rowi

REST API EXAMPLE

```
# Turn ON
curl -H "Content-Type: application/json" \
     -X POST http://192.168.0.164/setRelayStatus \
     -d '{"data": "on"}'

# Turn OFF
curl -H "Content-Type: application/json" \
     -X POST http://192.168.0.164/setRelayStatus \
     -d '{"data": "off"}'
```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