

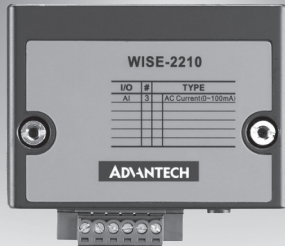
# WISE-2210

# WISE-2211

## LPWAN Wireless Self-powered CT Node

## LPWAN Wireless Self-powered Sensor Node

**NEW**



### Features

#### WISE-2210

- Directly measure equipment power current via CT (Current transformer, AC 0~100mA)

#### WISE-2211

- Directly measure sensor data(DC, 4~20mA)

#### WISE-2210/2211

- No power and communication wiring
- Measure and transmit power current every minutes
- Less interference and better penetration through concrete and steel, compared with 2.4GHz spectrum
- Max. 3 AI channels for CT or sensors
- MQTT and RESTful API IoT Protocol Support
- Plug and play

### Common Specification

#### Wireless Communication

- Frequency Band** AS923: 923MHz (920.60~924.60), BW: 400kHz  
EU868: 868MHz (865.00~869.00), BW: 400kHz
- Transmit Power** Up to +12dBm
- Data Rate** 625bps / 2.5k bps / 5K bps / 50K bps
- Topology** Star
- Network Capacity** 64 clients

#### General

- Power Input** Power source is from AI Channel  
WISE-2211: AC, 0~100mA  
WISE-2210: DC, 4~20mA
- Configuration Interface** Micro-B USB
- Mounting** DIN 35 rail, wall, pole
- Dimension (W x H x D)** 71 x 52 x 30 mm (without Antenna)
- Certification** CE (RED), FCC, NCC

#### Environment

- Operating Temperature** -25~70 °C
- Operating Humidity** 5~95% RH
- Storage Temperature** -40~85 °C
- Storage Humidity** 0~95% RH

### WISE-2210

- Channel** 3 (for CT, 0-100mA, AC)
- Input Range** 0-100mA, Alternating current
- Resolution** 11.5 bits
- Accuracy** ± 0.2 % of FSR
- Drift** 40ppm

### WISE-2211

- Channel** 3 (for sensor, 4-20mA, DC)
- Input Range** 4-20mA, Direct current
- Resolution** 11.5 bits
- Accuracy** ± 0.2 % of FSR
- Drift** 40ppm

### WISE-4210-AP

#### Wireless Communication

- Frequency Band** AS923: 923MHz (920.60~924.60), BW: 400kHz  
EU868: 868MHz (865.00~869.00), BW: 400kHz
- Data Rate** 625bps / 2.5k bps / 5K bps / 50K bps
- Topology** Star
- Network Capacity** 64 clients

#### General

- Ethernet** RJ-45 (for configuration and data query)
- RS-485** Data+, Data- (for query node data)
- Messaging Protocol** Modbus/TCP, Modbus/RTU, REST, MQTT
- Application Protocol** HTTP, HTTPS, SNMP, DHCP
- Transport Protocol** TCP, UDP
- Supports RESTful Web API in JSON format**
- Supports Web Server in HTML5**

### Ordering Information

#### Wireless Self-powered Sensor

- WISE-2210-NA** LPWAN Wireless Self-powered CT Node-NA923/EU868
- WISE-2211-NA** LPWAN Wireless Self-powered Sensor Node-NA923/EU868

#### Wireless Access Point

- WISE-4210-APNA\*** LPWAN Wireless to Ethernet AP – AS923/EU868

#### Accessories

- 1750008837-01** 902-928MHz Dipole Antenna for WISE-4210/WISE-2210/WISE-2211
- 1750008836-01** 863-870MHz Dipole Antenna for WISE-4210/WISE-2210/WISE-2211

#### Current Transformer(CT)

P/N	Power Current Range (Primary)	Hole sizing (Primary)	Accuracy	Operating Temperature
96PD-CT241-60A	3~60A	10.0+/-0.2mm	0.5%	-20~65°C
96PD-CT248-100A	5~100A	15.7+/-0.3mm	0.5%	-40~65°C
96PD-CT24F-200A	10~200A	20.5+/-0.3mm	0.5%	-40~85°C
96PD-CT24C-300A	15~300A	35.7+/-0.3mm	0.5%	-40~85°C