

## ZED-3IAC-M

### ZigBee module for alternate current measurements



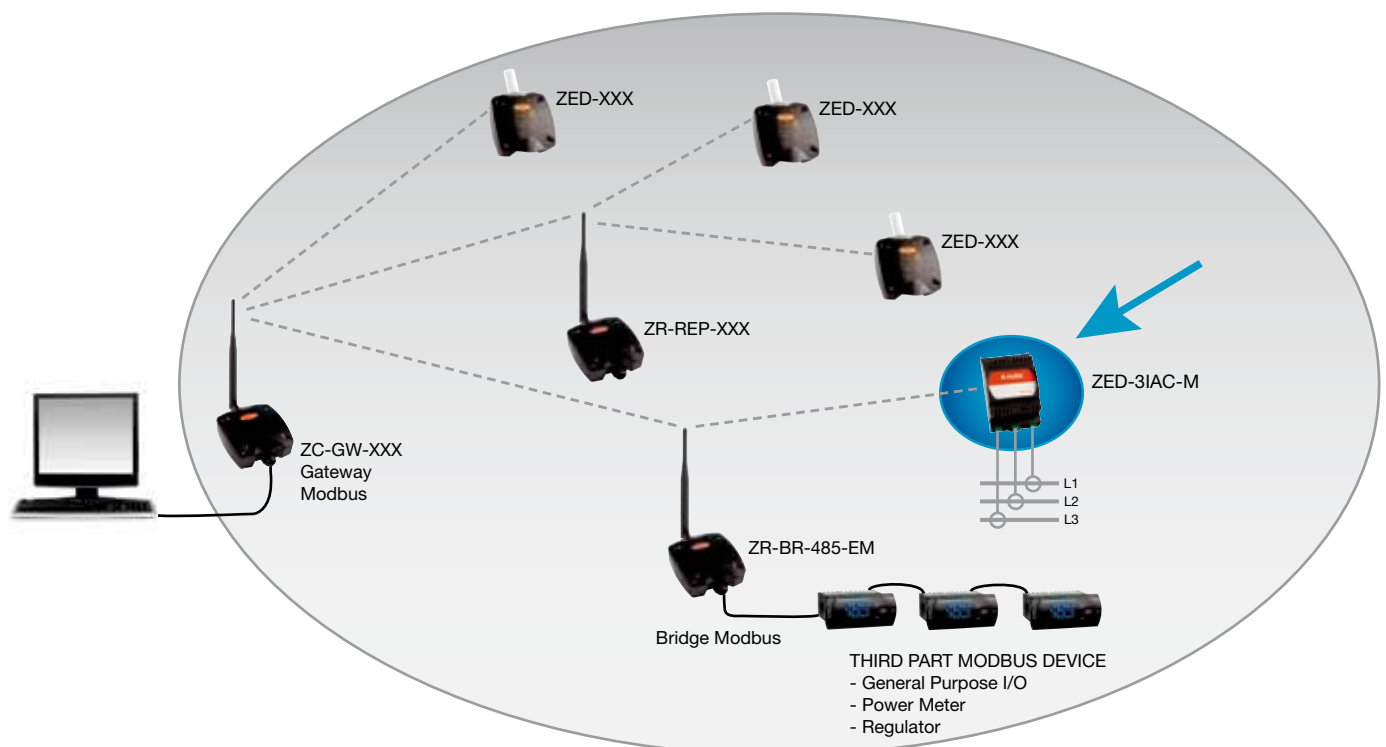
#### Key Features

- 3 inputs 5A/380V compatible with most popular commercial current transformers (not included)
- Simple and quick installation, without services breakdown
- Alarm thresholds
- Sampling and transmission rates are configurable
- Battery powered
- Internal antenna

The ZED-3IAC-M is a battery supplied ZigBee device which can perform alternate current measurements on 3 channels and send these values at regular intervals to a Gateway of the 4-noks products family.

This device may be configured to manage alarm thresholds when exceeding maximum or minimum levels of measures. It is also possible to adjust the sampling and data transmission rate to improve battery duration.

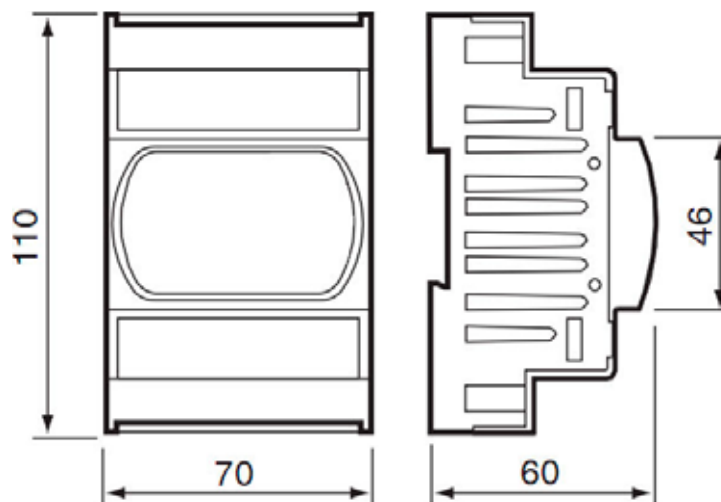
#### Typical Application



## ■ Technical Specs

|   |   |
|---|---|
| General characteristics   | Chip Ember EM250<br>Compatible IEEE 802.15.4<br>Stack EmberZnet 3.4.x (ZigBee PRO)<br>Modbus/RTU<br>Device address settable via internal dip-switch<br>DIN Rail Mounting  |
| RF characteristics  | Frequency: 2405 MHz ÷ 2480 MHz<br>Modulation: DSSS<br>Nominal transmission power: 2 mW (3 dBm)<br>Reception sensitivity: -95 dBm<br>Internal antenna gain: 0 dB<br>Coverage outdoor/indoor: 100m/30m  |
| Supply  | AA high energy density lithium battery 3.6V/2000mAh<br>Battery life: 3 years in case of 1 transmission per minute at 20°C   |
| AC current measurement  | Measurement range: 0 ÷ 5A rms<br>Measurement resolution: 1mA<br>Measurement accuracy: ±2%   |
| Environment parameters  | Operating temperature: -10 ÷ +60°C; <80% U.R. not condensing<br>Storage temperature: -20 ÷ +70°C; <80% U.R. not condensing<br>Degree of protection: IP 55   |
| Compliant with 2006/95/EEC, 89/336/EEC, 99/5/EEC directives<br>Reference Norms: | ETSI EN 300 328: Radio Compatibility for digitals wide band transmissions<br>ETSI EN 301 489: Radio Compatibility<br>EN 61000-6-2: Electromagnetic Compatibility - Emissions<br>EN 61000-6-3: Electromagnetic Compatibility - Immunity<br>EN 60950-1: Electric Safety |

## ■ Dimensions (mm)



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 **ZB-Connection** is a 4-noks brand

4-noks is a  **ZigBee**  
Member

### 4-noks

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