

ZR-TIDCI-EM

ZigBee S0 pulse counter with router



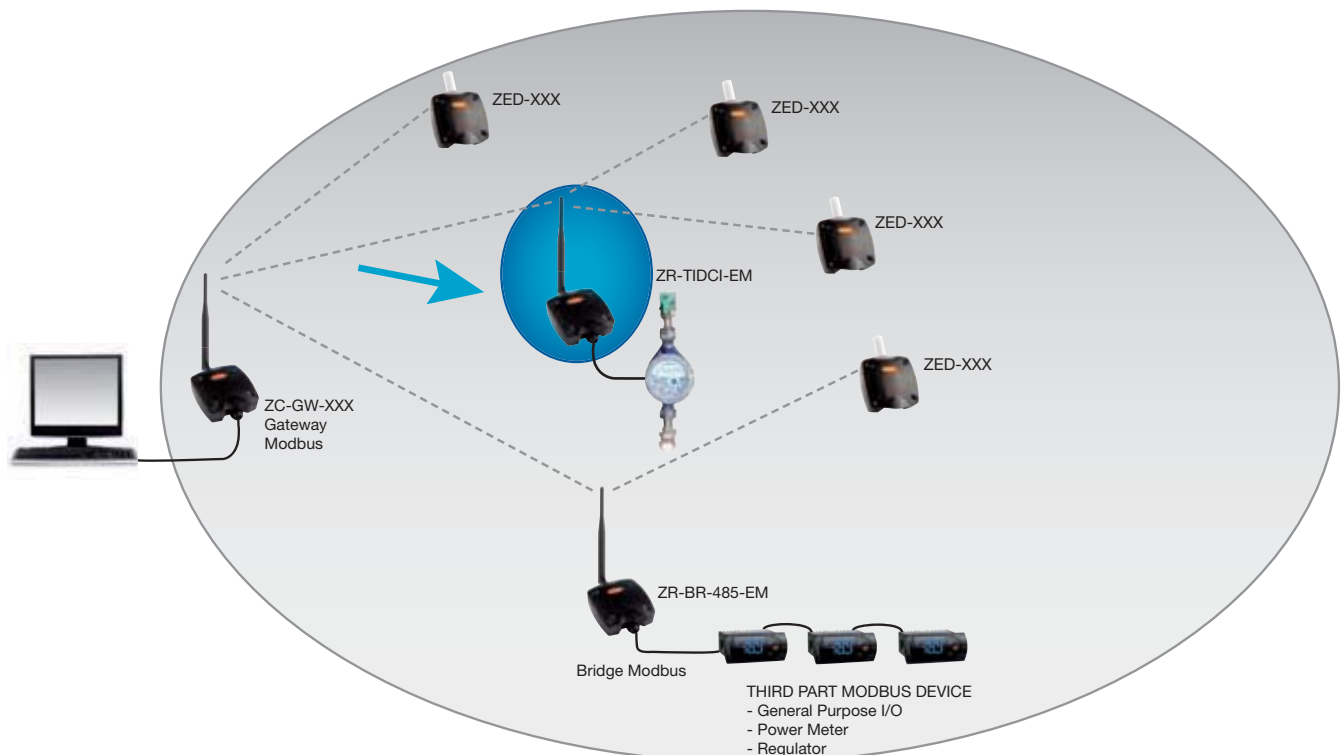
Key Features

- 2 pulse counter inputs S0 compatible
- 2 thermal resistor inputs (NTC resistors not included)
- Sampling and transmission rates are configurable
- 24Vdc/Vac supply
- Routing function
- External antenna
- RF power amplifier: 10 mW

The ZR-TIDCI-EM is a battery powered ZigBee device, capable to count pulses emitted from flow rate meters (water, gas, electricity,...) and to measure the temperature from both the 2 on board NTC inputs . Pulse counters and temperature samples are sent at regular intervals to a gateway of 4-noks products family.

Moreover, if temperature sensors are installed into an hydraulic circuit in the inlet and outlet pipes this device can send the difference between them.

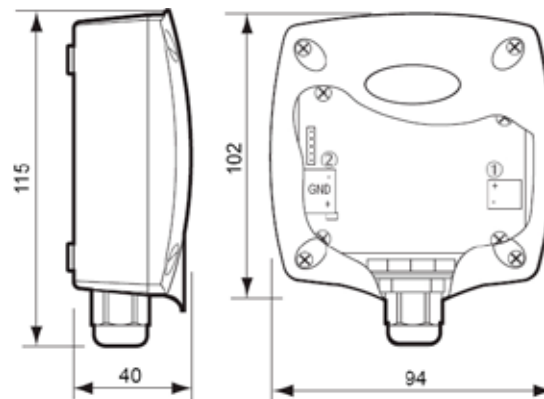
Typical Application



■ Technical Specs

General characteristics	Chip Ember EM250 Compatible IEEE 802.15.4 Stack EmberZnet 3.4.x (ZigBee PRO) Modbus/RTU Device address settable via internal dip-switch Wall mounting with screws Cable gland: PG9
RF characteristics	Frequency: 2405 MHz ÷ 2480 MHz Modulation: DSSS Nominal transmission power: 10mW (10 dBm) Reception sensitivity: -97 dBm External antenna gain: 5,5 dB Coverage outdoor/indoor: 200m/50m
Supply	12/24Vcc/Vca; 100mA; 50/60Hz
NTC thermal resistor input	NTC type resistor 103AT type (R25 = 10 KOhm; Beta = 3435K) Measurement range: -50°C ÷ +110°C Measurement resolution: 0,1°C Measurement accuracy : ±0,5°C Measures are linearized at tenth of degree
Digital inputs	Electronic type not insulated inputs for clean contact. Short circuit current 0,01mA. Use self-cleaning contact
Connections	Pull out terminals (3,81 mm pitch)
Environment parameters	Operating temperature: -10 ÷ +60°C; <80% U.R. not condensing Storage temperature: -20 ÷ +70°C; <80% U.R. not condensing Degree of protection: IP 55
Compliant with 2006/95/EEC, 89/336/EEC, 99/5/EEC directives Reference Norms:	ETSI EN 300 328: Radio Compatibility for digitals wide band transmissions ETSI EN 301 489: Radio Compatibility EN 61000-6-2: Electromagnetic Compatibility - Emissions EN 61000-6-3: Electromagnetic Compatibility - Immunity 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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