



DB2-THER

ZigBee remote control thermostat



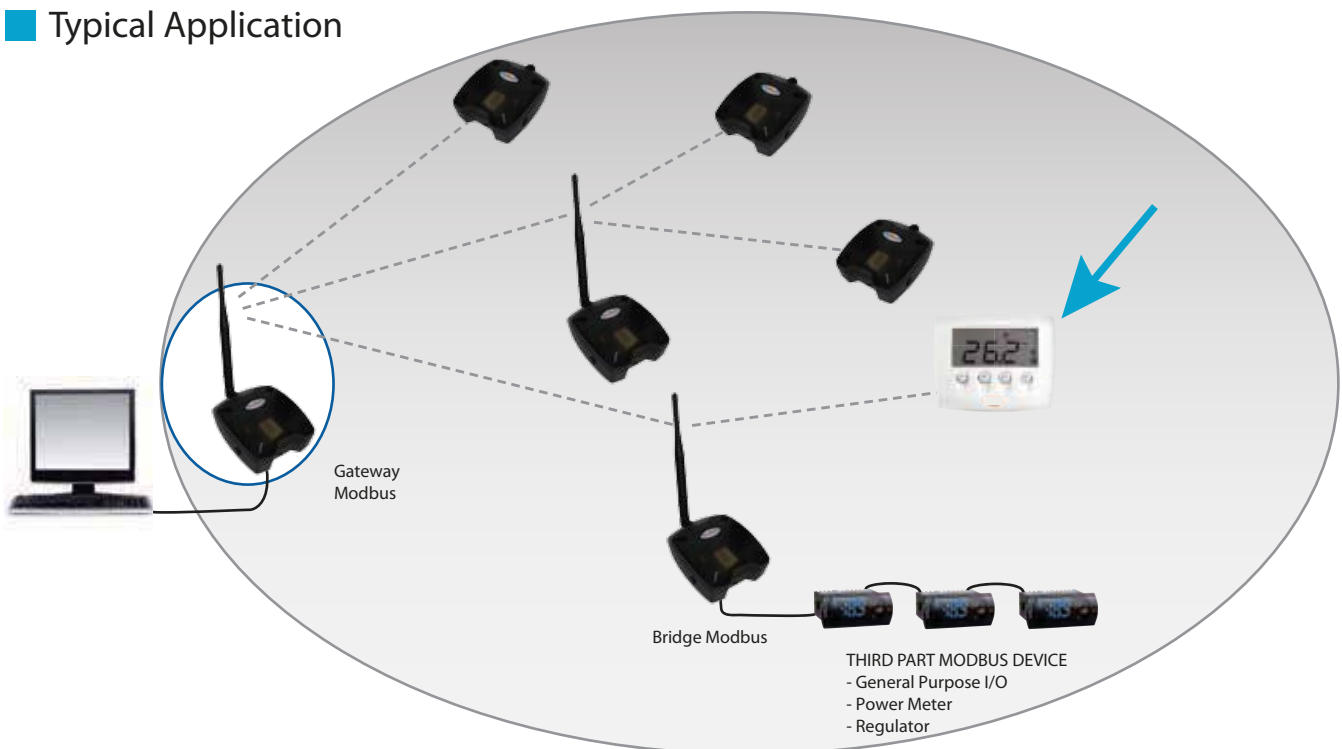
■ Key Features

- Full remotely configurable thermostat
- Wide 3 digit display
- 4 buttons
- Battery powered
- Internal antenna

The DB2-THER is a radio battery powered thermostat that can be connected to a PC-SCADA or PLC through ZigBee and one of the Gateways that belong to the Digitron products family. It is equipped with a wide LCD display and 4 buttons in order to have a simple user interface. This thermostat has two different operating modes to activate output: heating/cooling mode or heating set temperature mode (Auto/Comfort/Background/Frost Protection).

This device periodically makes available the values of room temperature, current temperature and the operating mode currently active. All functions are remotely controllable.

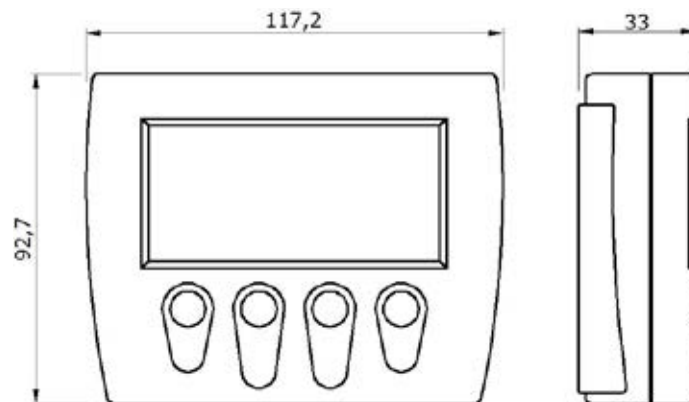
■ Typical Application



■ Technical Specs

General characteristics	Chip Ember EM250 Compatible IEEE 802.15.4 Stack EmberZnet 3.4.x (ZigBee PRO) Modbus/RTU Wall mounting with screws
RF characteristics	Frequency: 2405 MHz ÷ 2480 MHz Modulation: DSSS Nominal transmission power: 2mW (3 dBm) Reception sensitivity: -95 dBm Internal antenna gain: 0 dB Coverage outdoor/indoor: 100m/30m
Supply	3 AAA Batteries 1,5V Battery life: 2 years in case of one transmission every 5 minutes at 20°C
Thermostat	Auto/Comfort/Background/Frost Protection operating mode (remotely configurable) Heating/Cooling operating mode (remotely configurable) Hysteresis: -/+1°C (remotely configurable) Set temperature range +8/+32°C (remotely configurable) Temperature resolution: 0,1°C Temperature accuracy: ±1°C
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 30
Compliant with 2006/95/EEC, 89/336/EEC, 99/5/EEC directives Reference Norms:	ETSI EN 300 328: Radio Compatibility for digital 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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Digitron

