# WSD12-EVTT

*Wireless Smart Datalogger.*

*Thermal Energy*

## Technical Information**

| Power supply | 8.5Ah - 3.6V type "C" lithium internal battery |
|---|---|
| Battery life (*) | Up to 5 years <br> *(samples every 10 minutes and radio signal quality at least sufficient)* |
| Measures acquired <br> *(4 input channels)* | Pulses from clean contact or "open collector": <br> • CH1: Thermal Energy <br> • CH2: Volume <br> • CH3/CH4: Heat-transfer fluid temperature <br> *(Compatible with any energy meter with pulse digital output)* |
| Sampling interval *(*)* | Selectable from one minute to 24 hours *(10 minutes default)* |
| Datalogger capacity | 64,000 samples *(for each channel)* |
| Working temperature | • Operative: -30°C ÷ +60°C <br> • Warehousing: -40°C ÷ +70°C |
| Radio frequency | ISM 868MHz |
| Radio coverage | Up to 6Km in line of sight <br> *(can be extended using WR12 battery powered repeaters)* |
| Sealing | IP65 |
| Dimensions | 90x120x50mm : |
| Weight | 350g |
| Case material | ABS |
| Mounting | Fix on 4 points |
| Connections | Wireless, USB |
| Cable external diameter | 4.7mm maximum |
| Copper wire section | 0.05 ÷ 2.5mm² / ÷ 14 AWG |

## Thermal energy

| | Selectable on board: | |
|---|---|---|
| | **CH1 (KWh)** | **CH2 (l)** |
| **Weight Counting** | 1 | 10 |
| | 10 | 100 |
| | 100 | 1.000 |
| | 1.000 | 1.000 |

## NTC10KΩ BETA 3435 inputs

| Transducer type | NTC10KΩ BETA 3435 (*2 wires*) |
|---|---|
| Measure range | -50°C ÷ +105°C |
| Measure accuracy | ± 0.5°C @ 40°C |
| Measure resolution | 0.01°C |
| Connection | Internal terminal block |
| Sensor input | From 0 to 4.5mm Ø cable clamp |

## Wireless Smart Datalogger.

The **WSD12-EVTT** is a datalogger with 2 clean contact or "open collector" inputs capable to count pulses coming from a thermal energy meter (*energy and volume*).

Channels 3 and 4 are equipped with contact NTC10KΩ BETA 3435 temperature sensors to acquire the heat-transfer fluid temperature (*flow and return*).

All channels are provided with storage functionality of samples acquired.

The radio module High Reliability (*unique 868MHz radio technology. implementing frequency hopping on 11 channels*) based on **WINECAP™ LuPo** protocol (*Long Range*) provides an excellent radio range, low battery consumption and the certainty of data recovery in any situation (*black out/ signal obstacles*).

With a backup memory onboard may store the last 64,000 samples per channel even if the wireless link is down. Samples can be downloaded using a USB connection.

Using the configuration software, the sampling interval may be set and two thresholds per channel can be activated.

May be interfaced with:

- all the **basestations** of **MWDG** product line
- all the **basestations** of **MWLI** product line

If necessary, radio coverage may be extended up to 16 times using **WR12 repeaters** (*battery powered repeaters with battery life up to 7 years*) between the datalogger and the **basestation**.

* battery life may be influenced by fieldwork conditions, sampling interval and system configuration. - refer to User Manual.

** Available with ACCREDIA calibration certificate or manufacturer certificate .

The features shown may be subject to change without notice.