

WSD12T-TT1K

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Wireless  
Cap



## Outdoor temperature and PT1000 input channel.

Wireless datalogger for outdoor temperature measurement equipped with two inputs for connecting PT1000 sensors for surface or immersion temperature measurement. Free installation in any position. High radio range and autonomy.

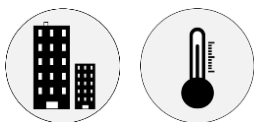
### Suitable to monitor:

- Outdoor temperature
- Wall temperature
- Surface temperature
- Fluid temperature


### Main features

- Can be installed in any position
- Rugged and impact resistant case
- IP65
- Up to 5 years of autonomy

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## General technical specifications

Power supply	8.5Ah - 3.6V type "C" lithium internal battery ( <a href="#">BAT2</a> )
Battery life (*)	Up to 5 years <i>(samples every 10 minutes and radio signal quality at least sufficient)</i>
Measures acquired ( <i>3 input channels</i> )	<ul style="list-style-type: none"> <li>Indoor temperature</li> <li>PT1000 transducer input channel</li> </ul>
Sampling interval (*)	Selectable from one minute to 24 hours ( <i>10 minutes default</i> )
Datalogger capacity	64,000 samples ( <i>for each channel</i> )
Working temperature	<ul style="list-style-type: none"> <li>Operative: -30°C ÷ +60°C</li> <li>Warehousing: -40°C ÷ +70°C</li> </ul>
Radio frequency	ISM 868MHz
Radio coverage	 Up to 6Km in line of sight <i>(can be extended using <a href="#">WR12</a> battery powered repeaters)</i>
Sealing	IP65
Dimensions	90x120x50mm
Weight	350g
Case material	ABS
Mounting	Fix on 2/4 points
Connections	Wireless, USB
Cable external diameter	4.7mm maximum
Copper wire section	0.05 ÷ 2.5mm <sup>2</sup> / ÷ 14 AWG

## Indoor temperature

Transducer type	NTC10KΩ
Measure range	-10°C ÷ +60°C
Measure accuracy	± 0.2°C in whole range
Measure resolution	0.01°C

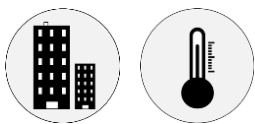
## PT1000 transducer input channel

Transducer type	Two and/or three wires PT1000
Measure range	-200°C ÷ 125 °C
Measure accuracy <i>(for the datalogger only)***</i>	± 0.3°C in the whole range
Measure resolution	0.1°C

\* battery life may be influenced by fieldwork conditions, sampling/measuring interval and system configuration.

\*\* radio coverage can be extended using up to 32 [WR12](#) repeaters (maximum 16 for each path) between the device and the gateway.

\*\*\* available also in special versions with better precision specifying, during order, the restricted measure range.



## WSD12T-TT1K

The **WSD12T-TT1K** wireless datalogger, provided with 3 input channels, is designed to acquire outdoor temperature and surface/fluid temperature with PT1000 transducer input channels, 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 (*up to 6 Km in line of sight*), 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 128,000 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.

Can be interfaced with:

- all the gateways of **MWDG** product line
- all the gateways 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 gateway.

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*The features shown may be subject to change without notice.*