



WSD02TH2-T1K



**Capetti**  
ELETTRONICA

**Wiseap**



## Indoor temperature and PT1000 input channel.

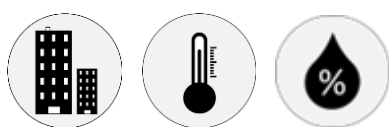
Wireless datalogger for indoor temperature and relative humidity measurement equipped with an input for connecting a PT1000 sensor for surface or immersion temperature measurement. Free installation in any position. High radio range and autonomy.

### Suitable to monitor:


- Indoor temperature
- Wall temperature
- Surface temperature
- Fluid temperature
- Environment relative humidity

### Main features

- Can be installed in any position
- Rugged and impact resistant case
- IP30
- Up to 5 years of autonomy



## General technical specifications

Power supply	2.4Ah - 3.6V type "AA" lithium internal battery ( <a href="#">BAT1</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>Relative humidity</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	IP30
Dimensions	80x80x25mm
Weight	100g
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

## Relative humidity

Transducer type	CMOSens® Technology
Measure range	0 ÷ 100%
Measure accuracy	2.0% (typical) from 0 to 90%
Measure resolution	0.05%RH

## 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.



## WSD02TH2-T1K

The **WSD02TH2-T1K** wireless datalogger, provided with 3 input channels, is designed to acquire indoor temperature, environment relative humidity and surface/fluid temperature with a PT1000 transducer input channel, 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 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.

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.*