

WSD00TH2

WSD00TH2_LD

Wireless Smart Datalogger

Indoor Temperature and Relative Humidity Recorder



Technical Information**

Power supply	<ul style="list-style-type: none"> • WSD00TH2: 2.4A/h - 3.6V type "AA" lithium internal battery • WSD00TH2_LD: 8.5A/h - 3.6V type "C" lithium internal battery
Battery life (*)	<ul style="list-style-type: none"> • WSD00TH2: Up to 5 years • WSD00TH2_LD: Up to 12 years <i>(samples every 10 minutes and radio signal quality at least sufficient)</i>
Measures acquired (2 input channels)	<ul style="list-style-type: none"> • Indoor temperature • Relative humidity
Sampling interval (*)	Selectable from one minute to 24 hours (10 minutes default)
Datalogger capacity	128,000 samples (for each channel)
Working temperature	<ul style="list-style-type: none"> • Operative: -30°C ÷ +60°C • Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage	Up to 6Km in line of sight <i>(can be extended using WR12 battery powered routers)</i>
Sealing	IP30
Dimensions	<ul style="list-style-type: none"> • WSD00TH2: 80x80x25mm • WSD00TH2_LD: 120x80x33.5mm
Weight	<ul style="list-style-type: none"> • WSD00TH2: 100g • WSD00TH2_LD: 224g
Case material	ABS
Mounting	Fix on 2/4 points
Connections	Wireless, USB



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WSD00TH2_LD

Wireless Smart Datalogger.

The **WSD00TH2** and the **WSD00TH2_LD** are **dataloggers** with two input channels to acquire indoor temperature and relative humidity, 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 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.

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 routers](#) (battery powered repeaters with battery life up to 7 years) between the datalogger and the **basestation**.

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 100%
Measure resolution	Accuracies are granted between 0°C ÷ 50°C range

* 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.

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V2.3