WSD20TH2VOC

Wireless Smart Datalogger

Indoor temperature, relative humidity and TVoc

*Technical Information***

Power supply	8.5A/h - 3.6V type "C" lithium internal battery
Battery life (*)	Up to 8 years *(samples every 10 minutes and radio signal quality at least sufficient)*
Measures acquired ***(3 input channels)***	• Indoor temperature • Relative humidity • TVoc
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 • Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage	Up to 6Km in line of sight *(can be extended using **WR12** battery powered routers)*
Sealing	IP30
Dimensions	120x80x33,5mm
Weight	224g
Case material	ABS
Mounting	Fix on 2/4 points
Connections	Wireless, USB

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

TVoc

Transducer type	CMOSens® Technology
Measure range	0÷60,000ppb
Testing gas	Ethanol and H2
Measure resolution	1ppb from 0÷2,000ppb

Wireless Smart Datalogger.

The **WSD00TH2VOC** is a three channels **datalogger** to acquire indoor temperature, relative humidity and Total VOC (*Volatile Organic Compounds*), with storage capability of samples.

Equipped with an internal transducer to measure Total VOC in ppb, is useful to monitor IAQ (*Indoor Air Quality*).

Transducer uses MOXSens® technology that guarantees stability against siloxanes present in domestic spaces and confers long term stability and accuracy.

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 routers** (*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.

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