

Technical Information**

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|---|--|
| 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) | <ul style="list-style-type: none"> 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 | <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 (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 |



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**.

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 |

* 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.