


## Technical Information\*\*

<b>Power supply</b>	2.4Ah - 3.6V type "AA" lithium internal battery
<b>Battery life (*)</b>	Up to 5 years <i>(samples every 10 minutes and radio signal quality at least sufficient)</i>
<b>Measures acquired (2 input channels)</b>	<ul style="list-style-type: none"> <li>Outdoor temperature</li> <li>CO<sub>2</sub></li> </ul>
<b>Sampling interval (*)</b>	Selectable from one minute to 24 hours <i>(10 minutes default)</i>
<b>Datalogger capacity</b>	128,000 samples <i>(for each channel)</i>
<b>Working temperature</b>	<ul style="list-style-type: none"> <li>Operative: -30°C ÷ +60°C</li> <li>Warehousing: -40°C ÷ +70°C</li> </ul>
<b>Radio frequency</b>	ISM 868MHz
<b>Radio coverage</b> 	Up to 6Km in line of sight <i>(can be extended using <a href="#">WR12</a> battery powered repeaters)</i>
<b>Sealing</b>	IP65
<b>Dimensions</b>	90x120x50mm
<b>Weight</b>	350g
<b>Case material</b>	ABS
<b>Mounting</b>	Fix on 4 points
<b>Connections</b>	Wireless, USB
<b>Cable external diameter</b>	4.7mm maximum
<b>Copper wire section</b>	0.05 ÷ 2.5mm <sup>2</sup> / ÷ 14 AWG



### Wireless Smart Datalogger.

The **WSD12T-CO** is a datalogger with 2 input channels to acquire outdoor temperature and CO<sub>2</sub> concentration, 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 repeaters](#) *(battery powered repeaters with battery life up to 7 years)* between the datalogger and the **basestation**.

## Outdoor temperature

<b>Transducer type</b>	NTC10KΩ
<b>Measure range</b>	-30°C ÷ +60°C
<b>Measure accuracy</b>	<ul style="list-style-type: none"> <li>± 0.5°C Range -30°C ÷ 0°C</li> <li>± 0.2°C Range 0°C ÷ +60°C</li> </ul>
<b>Measure resolution</b>	0.01°C

## CO<sub>2</sub> concentration

<b>Measure range</b>	0÷2,000ppm
<b>Measure accuracy</b>	<±50ppm <i>(+2% of value acquired)</i>
<b>Measure resolution</b>	1ppm
<b>Temperature dependence</b>	2ppm CO <sub>2</sub> /°C typical
<b>Long term stability</b>	20ppm/year
<b>Transducer sealing</b>	IP54

\* 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.