

# WSD00T

# WSD00T\_LD

Wireless Smart Datalogger  
Indoor Temperature Recorder



## Technical Information

Power supply	<ul style="list-style-type: none"> <li>• <b>WSD00T</b>: 2.4A/h - 3.6V type "AA" lithium internal battery</li> <li>• <b>WSD00T_LD</b>: 8.5A/h - 3.6V type "C" lithium internal battery</li> </ul>
Battery life (*)	<ul style="list-style-type: none"> <li>• <b>WSD00T</b>: Up to 5 years</li> <li>• <b>WSD00T_LD</b>: Up to 12 years <i>(samples every 10 minutes and radio signal quality at least sufficient)</i></li> </ul>
Measures acquired (1 input channel)	Indoor temperature
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"> <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 routers)</i>
Sealing	IP30
Dimensions	<ul style="list-style-type: none"> <li>• <b>WSD00T</b>: 80x80x25mm</li> <li>• <b>WSD00T_LD</b>: 120x 80x33.5mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• <b>WSD00T</b>: 100g</li> <li>• <b>WSD00T_LD</b>: 224g</li> </ul>
Case material	ABS
Mounting	Fix on 2/4 points
Connections	Wireless, USB



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## Wireless Smart Datalogger

The **WSD00T** and the **WSD00T\_LD** are **dataloggers** with one input channel to acquire indoor temperature, 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

\* battery life may be influenced by fieldwork conditions, sampling interval and system configuration. - refer to User Manual.

The features shown may be subject to change without notice.

WB0123E Rev.13  
V2.3