




# WSD12T-AV

Wireless Smart Datalogger.

Voltage (0÷10Vdc), Current (4÷20mA),  
Outdoor Temperature

WINECAP<sup>™</sup> LuPo

## Technical Information

Power supply	8.5Ah - 3.6V type "C" lithium internal battery
Battery life (*)	Up to 10 years (samples every 10 minutes and radio signal quality at least sufficient)
Measures acquired (3 input channels)	<ul style="list-style-type: none"> <li>Current</li> <li>Voltage</li> <li>Outdoor temperature</li> </ul>
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"> <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 (can be extended using <a href="#">WR12</a> battery powered repeaters)
Sealing	IP65
Dimensions	90x120x50mm
Weight	350g
Case material	ABS
Mounting	Fix on 4 points
Connections	Wireless, USB
Cable external diameter	4.7mm maximum
Copper wire section	0.05 ÷ 2.5mm <sup>2</sup> / ÷ 14 AWG



### Wireless Smart Datalogger.

The **WSD12T-AV** is a **datalogger** with 3 input channels to acquire voltage (0÷10V), current (4÷20mA) and outdoor 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<sup>™</sup> 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 repeaters](#) (battery powered repeaters with battery life up to 7 years) between the datalogger and the **basestation**.

## Current

Measure range	4÷20mA
Measure accuracy	35µA
Measure resolution	7µA

## Voltage

Measure range	0÷10Vdc
Measure accuracy	15mV
Measure resolution	3mV

## Outdoor temperature

Transducer type	NTC10KΩ
Measure range	-30°C ÷ +60°C
Measure accuracy	<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>
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.

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