


Technical Information

Power supply	8.5Ah - 3.6V type "C" lithium internal battery
Battery life (*)	Up to 10years (samples every 10 minutes and radio signal quality at least sufficient)
Measures acquired (3 input channels)	<ul style="list-style-type: none"> Linear deformation Outdoor temperature
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 repeaters)
Sealing	IP65
Dimensions	90x120x50mm
Weight	330g
Case material	ABS
Mounting	Fix on 4 points
Connections	Wireless, USB
Cable external diameter	4.7mm maximum
Copper wire section	0.05 ÷ 2.5mm ² / ÷ 14 AWG

Linear deformation

Measure range (**)	25/50/100/400mm
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Outdoor temperature

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



Wireless Smart Datalogger.

The **WSD12T-DD** is a **datalogger** with 3 input channels to acquire linear deformation 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™ 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 [MWL](#) 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**.

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

** refer to selected transducer's documentation. Setup DIP switches in proper way.

The features shown may be subject to change without notice.