

















Linear deformation and temperature

Wireless datalogger provided with 3 input channels to acquire linear deformation and temperature with storage functionality of samples acquired. Free installation in any position. Excellent radio coverage and autonomy.

Suitable to monitor:

- surface cracks on buildings, walls, bridges, viaducts, structural junctions, etc.
- landslide movements
- load tests

Main features

- Can be installed in any position
- Rugged and crash resistant case
- IP65
- Measure range 25/50/100/400mm
- Temperature measurement
- Up to 10 years of autonomy

















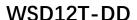
Power supply	8.5Ah - 3.6V type "C" lithium internal battery (BAT2)
Battery life (*)	Up to 10 years
	(samples every 10 minutes and radio signal quality at
	least sufficient)
Measures acquired (3 input channels)	Linear deformation
	Temperature
Sampling interval (*)	Selectable from one minute to 24 hours (10 minutes
	default)
Datalogger capacity	64,000 samples (<i>for each channel</i>)
Working temperature	• 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 <u>WR12</u> 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 ÷ 2.5mm² / ÷ 14 AWG

Linear deformation

Measure range	25/50/100/400mm
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Temperature

Transducer type	ΝΤC10ΚΩ
Measure range	-30°C÷+60°C
Measure accuracy	±0.5°C Range -30°C÷0°C
	±0,2°C Range 0°C÷+60°C
Measure resolution	0.01°C





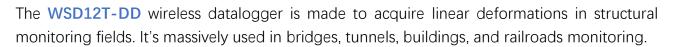












Device's main feature is the possibility to be installed **easily and rapidly in any position**. Can be fixed using dowels or directly glued on a surface.

The datalogger acquires three measure channels: linear deformation and temperature.

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 **gateways** of **MWDG** product line
- all the **gateways** of **MWLI** product line

If necessary, radio coverage may be extended up to 16 times using <u>WR12 repeaters</u> (battery powered repeaters with battery life up to 7 years) between the datalogger and the **gateway**.

The features shown may be subject to change without notice.