

Technical Information

Power supply	8,5A/h - 3,6V type "C" lithium internal battery
Battery life (*)	Up to 4 years <i>(samples every 60 minutes and radio signal quality at least sufficient)</i>
Measures acquired (4 channels)	<ul style="list-style-type: none"> • Frequency • Temperature
Sampling interval (*)	Selectable from one minute to 24 hours <i>(60 minutes default)</i>
Datalogger capacity	64,000 samples
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 <i>(can be extended using WR12 battery powered routers)</i>
Sealing	IP65
Dimensions	90 x 120 x 50mm
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 ² / ÷ 14 AWG

Frequency

Transducer type	Vibrating Wire
Measure range	500 ÷ 4000Hz
Measure accuracy	± 50ppm
Measure resolution	0.1µs / 0.1Hz

Temperature

Transducer type	NTC3KΩ
Measure range	-20°C ÷ +70°C
Measure accuracy	0.25°C at 25°C
Measure resolution	0.01°C



Wireless Smart Datalogger.

The **WSD12-VW** is a **datalogger** with 4 input channels to acquire frequency and temperature on vibrating wires (*extensometers, piezometers, crack meters*), with storage functionality of samples acquired.

The radio module based on **WINECAP™** protocol provides an excellent radio range and a very low battery consumption.

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 using up to **32 WR12 routers** (*maximum 16 for each path*) between the **datalogger** and the **basestation**.

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

The features shown may be subject to change without notice.

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