

## Technical Information

<b>Power supply</b>	8,5A/h - 3,6V type "C" lithium internal battery
<b>Battery life (*)</b>	Up to 4 years <i>(samples every 60 minutes and radio signal quality at least sufficient)</i>
<b>Measures acquired (4 channels)</b>	<ul style="list-style-type: none"> <li>• Frequency</li> <li>• Temperature</li> </ul>
<b>Sampling interval (*)</b>	Selectable from one minute to 24 hours <i>(60 minutes default)</i>
<b>Datalogger capacity</b>	64,000 samples
<b>Working temperature</b>	<ul style="list-style-type: none"> <li>• Operative: -30°C ÷ +60°C</li> <li>• Warehousing: -40°C ÷ +70°C</li> </ul>
<b>Radio frequency</b>	ISM 868MHz
<b>Radio coverage</b>	Up to 6Km in line of sight <i>(can be extended using <b>WR12</b> battery powered routers)</i>
<b>Sealing</b>	IP65
<b>Dimensions</b>	90 x 120 x 50mm
<b>Weight</b>	350g
<b>Case material</b>	ABS
<b>Mounting</b>	Fix on 4 points
<b>Connections</b>	Wireless/USB
<b>Cable external diameter</b>	4.7mm maximum
<b>Copper wire section</b>	0.05 ÷ 2.5mm <sup>2</sup> / ÷ 14 AWG

## Frequency

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

## Temperature

<b>Transducer type</b>	NTC3KΩ
<b>Measure range</b>	-20°C ÷ +70°C
<b>Measure accuracy</b>	0.25°C at 25°C
<b>Measure resolution</b>	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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