





















Frequency and temperature on vibrating wires

Wireless datalogger provided with 4 input channels to acquire frequency and temperature on vibrating wires. Free installation in any position. Excellent radio range and autonomy.

Suitable to monitor:

- Inclinations
- Surface cracks
- Structural deformations
- Interstitial pressures
- Aquifer levels

Main features

- Can be installed in any position
- Rugged and shock resistant case
- IP65
- 0.1μs/0.1Hz resolution
- 500÷4,000Hz excitation range
- Single wire temperature measurement
- Up to 4 years of autonomy



















| Power supply | 8.5Ah - 3.6V type "C" lithium internal battery (BAT2) |
|--------------------------------------|---|
| Battery life (*) | Up to 4 years |
| | (samples every 60 minutes and radio signal quality at |
| | least sufficient) |
| Measures acquired (4 input channels) | Frequency |
| | Temperature |
| Sampling interval (*) | Selectable from one minute to 24 hours (60 minutes |
| | default) |
| Datalogger capacity | 64,000 samples (for each channel) |
| 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 | 350g |
| 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 |

Frequency

| Transducer | Vibrating wire |
|---------------------|----------------|
| Excitation range | 500÷4,000Hz |
| Oscillator accuracy | ±50ppm |
| Resolution | 0.1μs/0.1Hz |

Temperature

| Transducer | ΝΤC3ΚΩ |
|---------------|----------------|
| Measure range | -20°C÷+70°C |
| Resolution | 0.01°C |
| Accuracy | 0.25°C at 25°C |

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WSD12-VW

The WSD12-VW wireless datalogger is made to acquire frequency and temperature on vibrating wires (strain gauges, piezometers, crack meters), 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 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.