



Single Channel Vibrating Wire Data Logger



Single Channel Vibrating Wire Data Logger shown with an RST Vibrating Wire Piezometer

The Single Channel Vibrating Wire Data Logger is a low cost, battery powered data logger, designed for reliable, unattended monitoring of a single vibrating wire sensor and thermistor.

It is a purpose built logger ideal for remote locations or instruments that require frequent reliable data recording. It connects to all vibrating wire sensors including piezometers, crack meters, and strain gauges. However, the Single Channel Vibrating Wire Data Logger will not connect to vibrating wire sensors with auto resonant circuitry.

Vibrating wire sensors have unique advantages in geotechnical applications, as the frequency output of the gauge is immune to external electrical noise, able to tolerate wet wiring without signal degradation, and able to transmit the signal upto 1.6 kilometers without loss.



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applications

Ideal for applications that require reliable, unattended monitoring of a single vibrating wire sensor.

features

HARDWARE

Robust construction.

128K memory.

Weather resistant
NEMA 4X (IP65) enclosure.

Battery powered
for remote sites.

100 year memory backup.

Compatible with all VW sensors
- excluding those with auto
resonant circuitry.

-40°C to 60°C (-40°F to 140°F)
operating range.

0.01µs vibrating wire resolution.

16 bit analog/digital converter.

SOFTWARE

User friendly Windows®
host software included at no
additional cost.

Compatible with most
spreadsheet software.

Data stores in CSV format,
and opens in Microsoft® Excel.



specifications + ordering info

Single Channel Vibrating Wire Data Logger



general specifications

DESCRIPTION	SPECIFICATION
Frequency Accuracy	0.01% Full Scale
Resolution	1 part in 65,000
Memory	Over 30,000 records including: time, frequency ² , temperature
Power Source	2 'AA' batteries
Battery Life	Over 5 years / 20 memory fills depending on temperature and use
Communication	RS232
Dimensions	150 x 65 x 40 mm (5.9 x 2.6 x 1.6 in.)
Temperature Range	-40°C to 60°C (-40° to 140°F)
Enclosure	NEMA 4X (IP65)

data storage specifications

DESCRIPTION	SPECIFICATION
Memory	128K
Data Transfer	30 seconds
Interval Mode	2 seconds to 1 day
Variable Rate Mode	16 user programmable sampling rates
Time Format	Month / day / year Hour / minute / second
Memory Full Behaviour	"Wrap around" or "fill & stop" option

optional equipment

Communications cable

ordering info

PART #	DESCRIPTION
DT2011	Single Channel Vibrating Wire Data Logger
DT2410	Ultra-Rugged Field PC



Setup the data logger and collect data using the Ultra-Rugged Field PC.

Screenshot of LogViewer Mobile software as shown on the Ultra-Rugged Field PC.

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