DT2011B Single Channel Vibrating Wire Data Logger



As shown right, the DT2011B

can also be equipped with an optional radio antenna to incorporate it into an RSTAR or DT LINK wireless system. RST's RSTAR system uses wireless technology to provide automated data acquisition and DT LINK allows wireless collection of data logger data in hard to access areas.





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.

Data logger setup and data collection is done using the Ultra-Rugged Field PC² or a laptop. Multi-Channel Host Software is also included.





The radio antenna can be easily screwed into the connector which is at the top of the DT2011B case.



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🐼 applications

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

痃 features

HARDWARE

Robust construction.

4MB memory.

Weather resistant NEMA 4X (IP65) enclosure.

Battery powered (lithium "D" cell) 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.

STRUCTURAL

MINING . ENVIRONMENTAL .

GEOTECHNICAL.



specifications + ordering info

DT2011B Single Channel Vibrating Wire Data Logger



⊚ general specifications		
DESCRIPTION	SPECIFICATION	
Frequency Accuracy	0.01% Full Scale	
Resolution	1 part in 65,000	
Memory	Over 600,000 records including: time, frequency ² , temperature	
Power Source	Lithium 'D' cell battery	
Battery Life	Over 7 years / 4 memory fills depending on temperature and use	
Communication	USB Type B connector (radio optional)	
Dimensions	185 x 75 x 55 mm (7.28 x. 2.95 x 2.17 in.)	
Temperature Range	-40°C to 60°C (-40° to 140°F)	
Enclosure	NEMA 4X (IP65)	

🕲 data storage specifications	
DESCRIPTION	SPECIFICATION
Memory	4MB
Data Transfer	500 data points per second
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 RSTAR L900 radio option DT LINK WIRELESS option

⊚ ordering info		
PART#	DESCRIPTION	
DT2011B	Single Channel Vibrating Wire Data Logger	
IC32000-AR2-RSTS	Ultra-Rugged Field PC ²	
OPTIONAL		
RSTAR L900 - automated wireless data collection		
DT2011B DTLINK - wireless data collection		



Setup the data logger and collect data using the Ultra-Rugged Field PC².

Screenshot of the Multi-Channel Mobile software as shown on the Ultra-Rugged Field PC².