



Monitor
with
Confidence

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At left, a DT2011B is equipped with an antenna for use in an L900 RSTAR system. At right, the DT2011B's antenna enables it to take advantage of DT LINK wireless data collection. The radio antenna is easily screwed into a connector at the top of the DT2011B.



PRODUCT CATEGORY:
READOUTS + DATA LOGGERS

DT2011B: Single Channel Vibrating Wire Data Logger

The DT2011B 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 DT2011B 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 up to 1.6 kilometers without loss.

Data logger setup and data collection is done using the Ultra-Rugged Field PC2 or a laptop. RST's DT Logger Host Software is also included.

The DT2011B can also be equipped with an optional radio antenna (see photos) to incorporate it into an RSTAR or DT LINK wireless system (see separate brochures). 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.

> APPLICATIONS

Where reliable, unattended monitoring of a single vibrating wire sensor including piezometers, crack meters and strain gauges is required.

> FEATURES

HARDWARE:

Robust construction.	4MB memory.
Battery powered for remote sites.	-40°C to 60°C (-40°F to 140°F) operating range.
Compatibility with all VW sensors - excluding those with auto resonant circuitry.	Option for radio antenna for incorporation into an RSTAR system or DT LINK.
100 year memory backup.	Weather resistant NEMA 4X (IP66) enclosure.
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.
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Data stores in CSV format, and opens in Microsoft® Excel.

> BENEFITS

✓ Increase Productivity	✓ Upgradable
✓ High Reliability	✓ Custom Options
✓ High Accuracy	✓ Cost Effective



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CUSTOMIZATION
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DT2011B: Single Channel Vibrating Wire Data Logger

SPECIFICATIONS + ORDERING



PRODUCT CATEGORY:
READOUTS + DATA LOGGERS

SPECIFICATIONS

GENERAL

ITEM	SPECIFICATION
Frequency Accuracy	0.01% Full Scale
Resolution	1 part in 65,000
Memory Records	Up to 600,000 records including: time, frequency ² , temperature
Power Source	Lithium compact or standard cell battery (NOTE: standard cell required for radio use)
Battery Life	Up to 4 years (assuming 1 hour reading frequency) depending on temperature and use (radio or non-radio)
Communication	USB Type B connector (radio optional)
Dimensions	190 x 75 x 55 mm (7.48 x 2.95 x 2.17 in.)
Temperature Range	-40°C to 60°C (-40° to 140°F)
Enclosure	NEMA 4X (IP66)

MEMORY

Memory Size	4MB
Data Transfer	2,300 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

Set up the data logger and collect data using the Ultra-Rugged Field PC2 with the included DT Logger Host Software.



The DT2011-SE Secondary Enclosure houses the DT2011B (Single Channel Vibrating Wire Data Logger). The enclosure uses an 11mm nut driver to secure the removable cover.

ORDERING

ITEM	PART #	
DT2011B Single Channel Vibrating Wire Data Logger	DT2011B	Contact RST for Details
Ultra-Rugged Field PC2	IC32000-AR2-RSTS	
Cable Gland Nut Wrench	DT100	
Pole Mount Kit	DT20XX-M1	
4" Secondary Enclosure	DT2011-SE	



Available for
**IMMEDIATE
DELIVERY**

OPTIONS

RSTAR L900 - automated wireless data collection



DT2011B DTLINK - wireless data collection



Available for
**CUSTOM
OPTIONS**

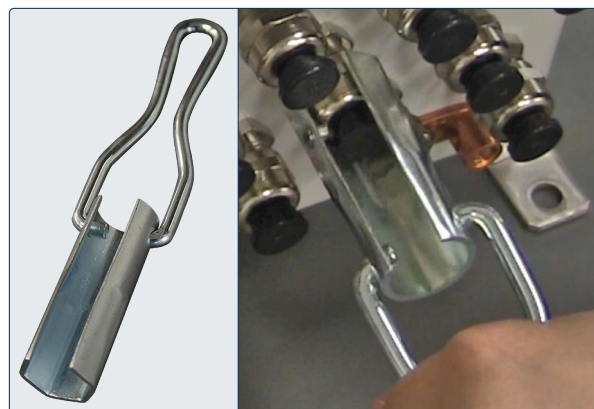
Contact RST for Details



BRACKET

CLAMP

The optional Pole Mount Kit includes a stainless steel pair of brackets and adjustable clamps.



The Cable Gland Nut Wrench (DT100) improves access to the glands when compared to a standard wrench.

