



Monitor
with
Confidence

TEL 604 540 1100
info@rstinstruments.com
www.rstinstruments.com

RST Instruments Ltd.
11545 Kingston St.,
Maple Ridge, BC V2X 0Z5 Canada



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 (lithium 'C' or 'D' cell) 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 (IP65) 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. |
|--|--|

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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SPECIFICATIONS + ORDERING

| 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 'C' or 'D' cell battery |
| Battery Life | Up to 7 years (assuming 1 hour reading frequency) / 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) |
| 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. Please see separate brochure for Secondary Enclosures at www.rstinstruments.com.

| ORDERING | | Available for IMMEDIATE DELIVERY Contact RST for Details |
|---|------------------|---|
| ITEM | PART # | |
| DT2011B Single Channel Vibrating Wire Data Logger | DT2011B | Available for CUSTOM OPTIONS 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 | |
| OPTIONS | | |
| RSTAR L900 - automated wireless data collection | | |
| DT2011B DTLINK - wireless data collection | | |
| Communications cable | | |
| Secondary enclosures and mounting kits | | |



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.