



DT
SERIES
DATA LOGGERS



As shown above, the DT2055B 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.

	PRODUCT CATEGORY:
	READOUTS + DATA LOGGERS

DT2055B: 5/10 Channel Vibrating Wire/Thermistor Data Logger

The DT2055B: 5/10 Channel Vibrating Wire/Thermistor Data Logger is a low cost, battery powered data logger, designed for reliable, unattended monitoring of up to 10 sensors which may be any mix of vibrating wire sensors and thermistors, typically 5 vibrating wire sensors with their associated thermistors.

The DT2055B is 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 DT2055B Ten Channel 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. DT Logger Host Software is also included.

A single gland option (DT2055B-T) is also available for Multi-point Vibrating Wire Piezometer Strings or Thermistor Strings.

The DT2055B can also be equipped with an optional radio antenna (see photo) to incorporate it into an RSTAR or DT LINK wireless system (see separate brochures).

> APPLICATIONS

Where reliable, unattended monitoring of up to 10 sensors (which may be any mix of vibrating wire sensors and thermistors) 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.
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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



Monitor with Confidence

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DT2055B: 5/10 Channel Vibrating Wire/Thermistor Data Logger

PRODUCT CATEGORY:
READOUTS + DATA LOGGERS

SPECIFICATIONS + ORDERING

SPECIFICATIONS	
GENERAL	
ITEM	SPECIFICATION
Frequency Accuracy	0.01% Full Scale
Resolution	1 part in 65,000
Memory Records	Up to 120,000 records including: time, 5 channels frequency, frequency ² , 5 channels temperature
Power Source	Lithium 'C' or 'D' cell battery
Battery Life	Up to 5 years (assuming 1 hour reading frequency) / 2 memory fills depending on temperature and use
Communication	USB Type B connector (radio optional)
Dimensions	120 x 122 x 91 mm (4.7 x 4.8 x 3.6 in.)
Temperature Range	-40°C to 60°C (-40° to 140°F)
Enclosure	NEMA 4X (IP65)
MEMORY	
Memory Size	4MB
Data Transfer	4,000 data points per second
Interval Mode	10 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 DT2055-SE Secondary Enclosure houses the DT2055B. The enclosure uses an 11mm nut driver to secure the removable cover. Please see separate brochure for Secondary Enclosures at www.rstinstruments.com.

ORDERING	
ITEM	PART #
DT2055B: 5/10 Channel Vibrating Wire/Thermistor Data Logger	DT2055B
DT2055B: 5/10 Channel Vibrating Wire/Thermistor Data Logger - Single Gland	DT2055B-T
Ultra-Rugged Field PC2	IC32000-AR2-RSTS
Cable Gland Nut Wrench	DT100
Pole Mount Kit	DT20XX-M2
8" Secondary Enclosure	DT2055-SE



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

OPTIONS	
RSTAR L900 - automated wireless data collection	
DT2055B DTLINK - wireless data collection	
Communications cable	Contact RST for Details
Secondary enclosures and mounting kits	



DT2055B Data Logger with Single Gland; optional connector available, contact RST for complete details.



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