DT2040 Data Logger



As shown above, the DT2040 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.

🤏 general specifications **SPECIFICATION DESCRIPTION** 0.002% Frequency Accuracy Thermistor 1 part in 65.000 Resolution - 2 CHANNELS: 303,000 records Memory Records 40 CHANNELS: 32,768 records time, 20 channels frequency, frequency², 20 channels temperature. Power Source 1 'D' lithium primary battery Battery Life Over 5 years / 2 memory fills depending on temperature and use Communication USB type B connector Dimensions 349 x 305 x 165 mm (13.75 W x 12 D x 6.5 H in.) -40°C to 60°C (-40° to 140°F) Temperature Range Enclosure NEMA 4X (IP65)

The DT2040 Data Logger is a low cost, battery powered data logger, designed for reliable, unattended monitoring of up to 40 sensors which may be any mix of vibrating wire sensors and thermistors, typically 20 vibrating wire sensors with their associated thermistors and/or thermistor strings.

The DT2040 is a purpose built logger ideal for remote locations or for instruments that will require frequent reliable data recording. The DT2040 connects to all vibrating wire sensors including piezometers, crack meters, and strain gauges. However, it 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. The DT2040 can also be upgraded to include radio transmission.

Data logger setup and data collection is done using the Ultra-Rugged Field PC^2 or a laptop. Multi-Channel Host Software is also included.



👁 data storage specifications

DESCRIPTION	SPECIFICATION
Memory Size	4 MB
Data Transfer	5,000 data points per second
Interval Mode	40 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

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PART#	DESCRIPTION	
DT2040	Data Logger	
IC32000-AR2-RSTS	Ultra-Rugged Field PC ²	
Please specify the number of cable glands required.		

OPTIONAL

RSTAR L900 - automated wireless data collection DT2040 DTLINK - wireless data collection



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🐼 applications

Ideal for applications that require reliable, unattended monitoring of up to 20 vibrating wire sensors or 40 thermistors points.

🎪 features

HARDWARE

Robust construction.

4MB memory.

Weather resistant NEMA 4X (IP65) enclosure.

Can upgrade to include radio.

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.

👁 optional equipment

Communications cable

RSTAR L900 radio option

DT LINK WIRELESS option

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