





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.



PRODUCT CATEGORY: READOUTS + DATA LOGGER

DT2040: 20/40 Channel Vibrating Wire/Thermistor Data Logger

The DT2040: 20/40 Channel Vibrating Wire/Thermistor 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. Surge protection is available on each channel with ground lug on exterior of enclosure (ground rod required).

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 DT2040 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 20 vibrating wire sensors or 40 thermistors points 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 (IP65) enclosure.
0.01µs vibrating wire resolution.	16 bit analog/digital converter.

Surge protection on each channel with ground lug on enclosure's exterior (ground rod required).

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



DT2040: 20/40 Channel **Vibrating Wire/Thermistor Data Logger**



SPECIFICATIONS + ORDERING

with

Confidence

SPECIFICATIO	ons	
GENERAL		
ITEM	SPECIFICATION	
Frequency Accuracy	0.002% Full Scale	
Resolution	1 part in 65,000	
Memory Records	- 2 CHANNELS: Up to 303,000 records - 40 CHANNELS: Up to 32,768 records Including: time, 20 channels frequency, frequency ² , 20 channels temperature	
Power Source	Lithium compact or standard cell battery (NOTE: standard cell required for radio use)	
Battery Life	Over 4 years (non-radio) standard cell 1.5 years (non-radio) compact cell 3 years (RSTAR, standard cell) 2 years (DT LINK, standard cell) (NOTE: above specs based on 1 hour reading frequency and dependent on temperature and use)	
Communication	USB Type B connector (radio optional)	
Dimensions	Without mounting tabs: 349 x 301 x 162 mm (13.74 W x 11.85 D x 6.38 H in.) With mounting tabs: 349 x 301 x 175 mm (13.74 W x 11.85 D x 6.89 H in.)	
Temperature Range	-40°C to 60°C (-40° to 140°F)	
Enclosure	NEMA 4X (IP65)	
MEMORY		
Mamaru Cina	AMP	

4MB Memory Size 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 Available for **ORDERING** IMMEDIATE

ITEM	PART #
DT2040 Data Logger	DT2040
Ultra-Rugged Field PC2	IC32000-AR2-RSTS
Cable Gland Nut Wrench	DT100

Grounding Rod Kit **OPTIONS**

RSTAR L900 - automated wireless data collection

DT2040 DTLINK - wireless data collection

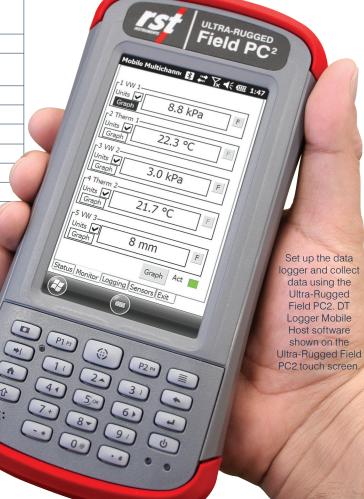


Contact RST for Details





to the glands when compared to a standard wrench.





ELGK4600