Monitor with Confidence

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

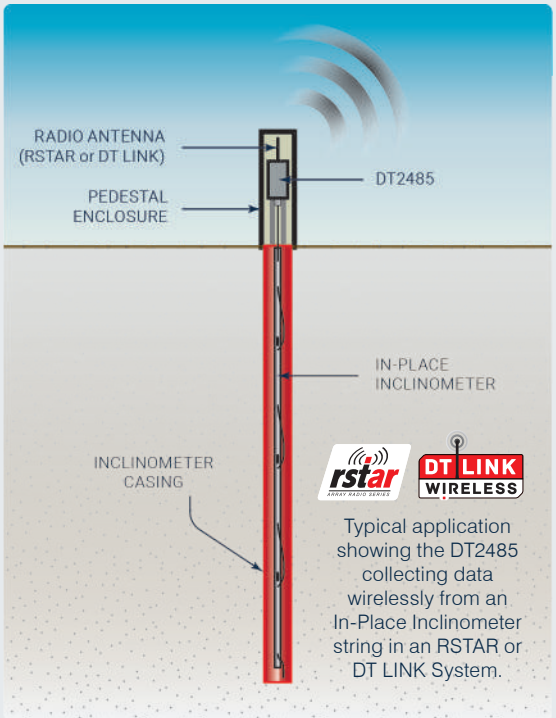
RST Instruments Ltd.
11545 Kingston St.,
Maple Ridge, BC V2X 0Z5 Canada

ISO 9001

DT SERIES
DATA LOGGERS

DT2485 DT-BUS Data Logger shown as a stand alone unit - without radio antenna kit for wireless data collection (DT LINK or RSTAR).

DT2485 equipped with a radio and antenna kit for use in an RSTAR system. A similar kit is also used for DT LINK wireless data collection. For either wireless system, the radio antenna is easily screwed into a connector at the top of the DT2485.



Typical application showing the DT2485 collecting data wirelessly from an In-Place Inclinometer string in an RSTAR or DT LINK System.

PRODUCT CATEGORY:
READOUTS + DATA LOGGERS

DT2485 DT-BUS Data Logger

The DT2485 enables low cost, stand alone, and radio-linked data collection of In-Place Inclinometer Strings and other DT-BUS (digital bus) sensors.

DT-BUS sensors/instruments can be incorporated into a wireless, or stand alone, data collection system by using the DT2485 Data Logger. The DT2485 provides wireless transmission of data collected from the DT-BUS sensors to an RSTAR Hub in a fixed location, or to a portable hub in a DT LINK System. More information on the RSTAR and DT LINK wireless data collection options can be found by viewing their separate brochures at rstinstruments.com.

DT-BUS instruments feature a single cable running the length of an entire chain of connected sensors/instruments, which are all individually addressable. As a result, DT-BUS simplifies installation and minimizes costs by eliminating the need of a separate cable for each sensor and also reduces the amount of cable to be managed during installation. The DT2485 also supports MODBUS sensors.

The DT2485 Data Logger can also be used with DT-BUS sensors where wireless data collection is not required. A string of up to 56 biaxial DT-BUS sensors can be read by the DT2485.

DT-BUS

> INSTRUMENTS USING DT-BUS

Vertical In-Place Inclinometer
In-Place Tilt Meter
Submersible Tilt Meter
Track Monitoring System
Profile Monitoring System - for Tunnel Concrete Segments
Tilt Beams
* Separate brochures for above products can be found at rstinstruments.com

> APPLICATIONS

Where automated collection of data, wireless or otherwise, is required from instruments that are bussed together along one single cable running the length of the entire chain of connected sensors.

> FEATURES

HARDWARE:

Option for radio and antenna kit for incorporation into an RSTAR or DT LINK System.	
Battery powered for remote sites.	-40°C to 60°C (-40°F to 140°F) operating range.
Robust construction.	4MB memory.
Weather resistant NEMA 4X (IP66) enclosure.	

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**	✓ **High Accuracy**

VIEW IN ACTION: https://youtu.be/E-Y3pQ6VwfQ

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

ISO 9001

DT2485 DT-BUS Data Logger

PRODUCT CATEGORY:
READOUTS + DATA LOGGERS

SPECIFICATIONS + ORDERING

SPECIFICATIONS

GENERAL	
ITEM	**SPECIFICATION**
Memory Records	Up to 32,000 records; maximum of 56 sensors (*Note: The DT2485 has a total of 170 channels available; however, each biaxial in-place inclinometer sensor occupies 3 channels: A, B, and temperature).
Power Source	Lithium standard cell battery
Battery Life	1-2 years with 10 sensors 6-7 months with 30 sensors (NOTE: above specs based on 1 hour reading frequency and dependent on temperature and use)
Resolution	Dependent on connected sensor type
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	4,000 data points per second
Interval Mode	Biaxial Node: 3 seconds Uniaxial Node: 2 seconds
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

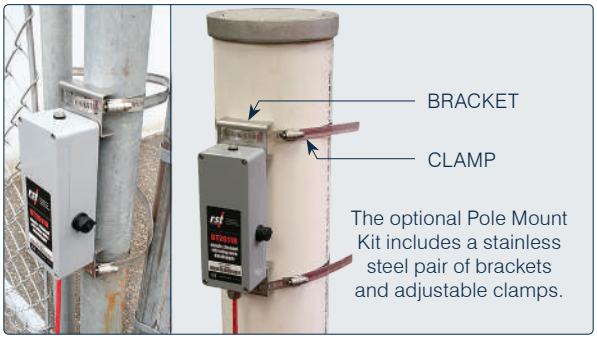
ORDERING

ITEM	PART #
DT2485 DT-BUS Data Logger	DT2485
Ultra-Rugged Field PC2	IC32000-AR2-RSTS
Cable Gland Nut Wrench	DT100
Flylead with M12 for easy connection	DT2485-M12
Pole Mount Kit	DT20XX-M1
4" Secondary Enclosure	DT2011-SE

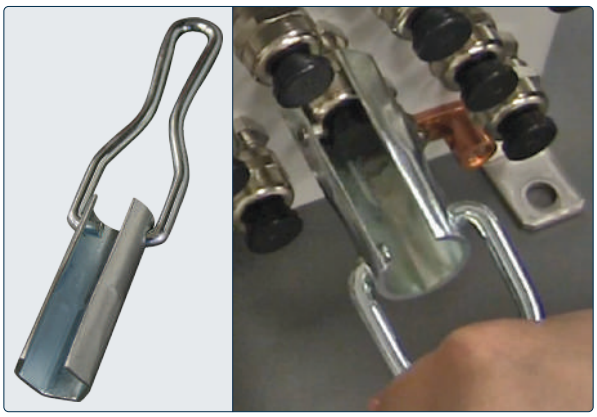
OPTIONS

RSTAR L900 - automated wireless data collection ANATEL
DT LINK - semi-automated wireless data collection

The DT2011-SE Secondary Enclosure houses the DT2485. The enclosure uses an 11mm nut driver to secure the removable cover.



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.

DT2485 DT-BUS Data Logger with optional flylead cable and connector for easy connection to DT-BUS sensor string.

CE