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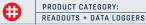
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DT2306 Potentiometer Data Logger



# DT2306: Potentiometer Data Logger

The DT2306 Potentiometer Data Logger is a low cost, battery powered data logger, designed for reliable, unattended monitoring of up to 18 potentiometers including multi-point extensometers with potentiometer sensors.

The DT2306 Potentiometer Data Logger is ideal for remote locations or instruments that require frequent reliable data recording. The standard model comes with cable glands, but custom options include connectors on the outside of the enclosure for quick connection of multi-point extensometers.

Data logger setup and data collection is done using the Ultra-Rugged Field PC2 or a laptop. DT Logger Host Software is also included. The DT2306 can also be equipped with an optional radio antenna to incorporate it into an RSTAR or DT LINK wireless system (see separate brochures).

#### > APPLICATIONS

Where reliable, unattended monitoring of up to 18 potentiometers (including multi-point extensometers) 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.                             |
| 100 year memory backup.  | Option for radio antenna for incorporation into an RSTAR system or DT LINK. |
| 16 bit analog/digital converter.                                     | Weather resistant NEMA 4X (IP65) 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.





The DT2306 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.





## DT2306: Potentiometer Data Logger



PRODUCT CATEGORY:
READOUTS + DATA LOGGERS

### **SPECIFICATIONS + ORDERING**

Monitor

Confidence

with

| SPECIFICATIONS        |   |  |
|-----------------------|---|--|
| GENERAL               |   |  |
| ITEM                  | SPECIFICATION   |  |
| Output Units          | 0 - 100% of FS range  |  |
| Resolution            | 1 part in 32,000  |  |
| Memory Records        | Up to 60,000 records including: time, 18 channels % of range  |  |
| 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   |  |

| ORDERING  |                  |  |
|---|------------------|--|
| ITEM  | PART #           |  |
| DT2306 Potentiometer Data Logger                | DT2306           |  |
| Ultra-Rugged Field PC2                          | IC32000-AR2-RSTS |  |
| Cable Gland Nut Wrench                          | DT100            |  |
| Pole Mount Kit                                  | DT20XX-M2        |  |
| 8" Secondary Enclosure                          | DT2055-SE        |  |
| OPTIONS   |                  |  |
| RSTAR L900 - automated wireless data collection |                  |  |
| DTLINK - wireless data collection               |                  |  |
| Communications cable                            |                  |  |





The DT2055-SE Secondary
Enclosure houses the
DT2306. The enclosure
uses an 11mm nut driver to
secure the removable cover.
Please see separate brochure
for Secondary Enclosures at
www.rstinstruments.com.





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