



# ROSCTEST

RxTx - Remote Pendulum Station



**HIGH RESOLUTION AND PRECISION  
STURDY & WEATHERPROOF  
MEASUREMENT IN 3 AXES**

The RxTx Telependulum optically measures the relative position of a pendulum wire in the X, Y and the optional Z axis

## Description

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The **RxTx** Telependulum is a highly sophisticated and precise opto-electronic horizontal and vertical displacement measurement device. More specifically, the RxTx measures the relative position of a pendulum wire in the X, Y and Z axis (Optional).

It includes a built-in datalogger enabling readings to be taken and stored remotely. Two communication ports enable data to be transmitted to remote locations via an optional modem. All commands can be executed locally through the other console port or remotely via either dedicated or switched telephone links over a communications network.

The RxTx Telependulum offers the user a highly precise and stable digital instrument that comes in a compact, sturdy and weatherproof cabinet. Equipped with a very practical slot it can be installed without dismantling the pendulum system, whether standard or inverted.

## Key Features

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- Stored data integrity protection system
- High resolution and precision
- Password-protected memory
- Measurement in 3 axes
- Configuration access
- Simple to install

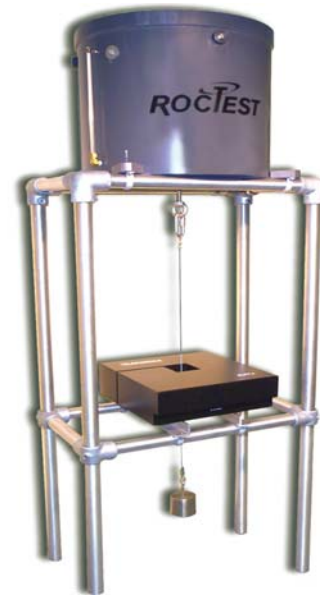
## Applications

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- Measurement of displacement of dams, foundations and other structures
- Pendulum installation at un-manned facilities in remote locations
- Pendulum installations providing real-time monitoring with alarm outputs

**Specifications**

|                              |   |
|------------------------------|---|
| <b>Data storage capacity</b> | 370 readings on non-volatile RAM.<br>Each reading contains: date, time and X, Y and optional Z displacement |
| <b>Resident software</b>     | EPROM   |
| <b>Time keeping</b>          | Real-time clock   |
| <b>Console</b>               | Weatherproof  |
| <b>Operating temperature</b> | -10°C to +40°C  |
| <b>Relative humidity</b>     | Up to 95%, non-condensing   |
| <b>Dimensions</b>            | 360 × 380 × 130 mm  |
| <b>Weight</b>                | 10 kg   |
| <b>Power</b>                 | 9 VA  |
| <b>Voltage</b>               | 117 Vac   |
| <b>Frequency</b>             | 60/50 Hz ±10%   |
| <b>Options</b>               | DC power supply, auxiliary power pack   |
| <b>Communication ports</b>   | RS232C, V.24  |
| <b>Console port</b>          | 9600 bit/s  |
| <b>Modem port</b>            | HAYES™-compatible 2400 bit/s  |
| <b>Option</b>                | 9600 bit/s modem  |
| <b>Sensor</b>                | CCD   |
| <b>Precision</b>             | ±0.05 mm  |
| <b>Resolution</b>            | 7.5 μm  |
| <b>Measurement axes</b>      | X, Y, Z (Optional)  |
| <b>Range</b>                 | 50 × 50 × 25 mm   |
| <b>Drift</b>                 | Digital   |



**Ordering Information**

Please specify:  
• Wire length

**Optional Accessories**

• Z axis measurement