

# REMOTE READING PENDULUM STATION

*Model RxTx*

**ROCTEST**  
**TELEMAC**

## APPLICATIONS

The RxTx Telependulum is used to remotely monitor the relative horizontal displacements between a direct or inverted pendulum wire and a structure. Typical applications include:

- 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

## DESCRIPTION

The RxTx Telependulum is a highly sophisticated and precise opto-electronic horizontal and vertical displacement measurement device.

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

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.



## FEATURES

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

## SPECIFICATIONS

<b>Data storage capacity</b>	370 readings on non-volatile RAM Each reading contains: date, time and X, Y and Z displacements
<b>Resident software</b>	EPROM
<b>Time keeping</b>	Real-time clock
<b>Console</b>	Weatherproof
<b>Operating temperature</b>	-10 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>Power supply</b>	80 to 260 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
<b>Range</b>	50 × 50 × 25 mm
<b>Drift</b>	Digital

