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 optoelectronic 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.

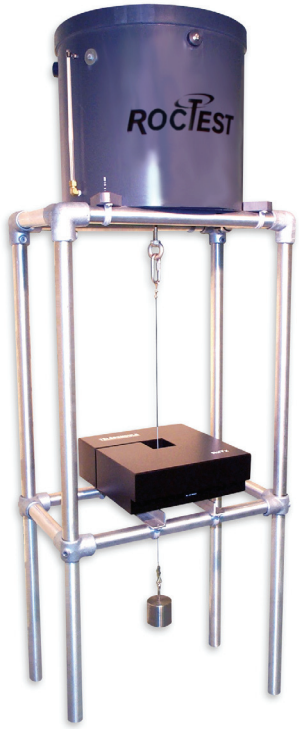
The RxTx Telependulum offers the user a highly precise and stable digital instrument that comes in a compact, sturdy and weatherproof cabinet. Equipped with a very practical slot it can be installed without dismantling the pendulum system, whether standard or inverted.

FEATURES

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

SPECIFICATIONS

Data storage capacity	370 readings on non-volatile RAM Each reading contains: date, time and X, Y and Z displacements
Resident software	EPROM
Time keeping	Real-time clock
Console	Weatherproof
Operating temperature	−10 to +40°C
Relative humidity	Up to 95%, non-condensing
Dimensions	360 × 380 × 130 mm
Weight	10 kg
Power	9 VA
Power supply	80 to 260 VAC
Frequency	60/50 Hz ±10%
Options	DC power supply, auxiliary power pack
Communication ports	RS232C, V.24
Console port	9600 bit/s
Modem port	HAYES™-compatible 2400 bit/s
Option	9600 bit/s modem
Sensor	CCD
Precision	±0.05 mm
Resolution	7.5 µm
Measurement axes	X, Y, Z
Range	50 × 50 × 25 mm
Drift	Digital



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