MR3003TR

Description

The MR3003TR is a product developed specifically for the monitoring of vibration induced by traffic and railways. The MR3003TR is based on the MR3003C, and in addition it features a hardware trigger input and two relay outputs. This allows the user to:

- Trigger at any time, without using the Web User Interface
- Connect external devices to have immediate information/alarms related to vibration levels.

The MR3003TR can be delivered with an internal or an external triaxial velocity sensor MS2003+, or with three external uniaxial velocity sensors MS2003+, solution dedicated to the traffic and railway measurements.

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Data acquisition

ITEM SPECIFICATION

Principle 4th order delta-sigma ADC per channel

Resolution

Sampling-rate 250, 500, 1'000, 2'000, 4'000 sps

Number of channels

Dimensions

ITEM SPECIFICATION

Housing Aluminum, 120 x 180 x 100 mm

Weight 1.5 kg

Protection degree IP 65 (splash-proof

Sensor

ITEM SPECIFICATION

Velocity sensor with linearized frequency response Sensor type A3HV 315/1 (triaxial) (according to DIN 45669)

Geophone

Principle

sensor - One external triaxial sensor - Three external Number of axes uniaxial sensors (recommended for traffic/railway

3, in different configurations - One internal triaxial

surveys)

 $\pm 100 \text{ mm/s}$ Measuring range full scale

Frequency range 1 - 350 Hz (linear $\pm 10\%$ frequency response)

Case-to-coil motion 4 mm p-p No image found RST INSTRUMENTS LTD

Dynamic range > 130 dB

Linearity/Phase According to DIN 45669 (class 1)
Cross axis sensitivity According to DIN 45669 (<5%)

External MS2003+ triaxial

ITEM SPECIFICATION
Dimensions 122 x 120 x 80 mm

Weight 1.55 kg

Connector Metallic self-latching push - pull connector

Accessories Mounting platform with levelling screws - weight: 1.9

kg

External MS2003+ single axis (horizontal or vertical)

ITEM SPECIFICATION

Dimensions 80 x 75 x 57 mm

Weight 0.45 kg

Connector 3 m interconnection cable with metallic, self-latching

push-pull connector

Accessories

Junction box (input for 3 single axis sensors, output like

triaxial sensor) and extension lead

Trigger input

ITEM SPECIFICATION

Principle Digital Hardware trigger

Mobile connectivity

ITEM SPECIFICATION

Mobile Network Internal 4G modem, fallback 3G/2G

Relay outputs

ITEM SPECIFICATION

Configuration 2 output configurable relays, No/Nc

Current 2 A, 30 V DC

Alarms for relays

Multiple level triggers (individually settable for each

axis)

Alarm range 0.1 % to 100% full scale

Optional alarm box

ITEM SPECIFICATION

Input voltage 115-230 V

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Maximum input current Protection degree

5 A IP 65 (splash-proof)

Specifications