

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.

Data acquisition

Principle
Resolution
Sampling-rate
Number of channels

Transcr of charms

Dimensions

ITEM

ITEM

Housing
Weight
Protection degree

Sensor

ITEM

Sensor type

Principle

Number of axes

Measuring range full scale

Frequency range

SPECIFICATION

4th order delta-sigma ADC per channel 24 bits 250, 500, 1â??000, 2â??000, 4â??000 sps 3

SPECIFICATION

Aluminum, 120 x 180 x 100 mm 1.5 kg IP 65 (splash-proof

SPECIFICATION

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

3, in different configurations - One internal triaxial sensor - One external triaxial sensor - Three external uniaxial sensors (recommended for traffic/railway surveys)

± 100 mm/s

1 - 350 Hz (linear ±10% frequency response)



Case-to-coil motion 4 mm p-p 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

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

Accessories

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

Input voltage
Maximum input current
Protection degree
Specifications

SPECIFICATION

115-230 V 5 A IP 65 (splash-proof)