Vetek Weighing AB Hantverksvägen 15, 76493 Väddö Sweden

Tel. + 46 176208920

Internet www.vetek.com E-Mail info@vetek.se



Measuring Amplifier for Strain Gauge Sensors T ype M2428-91

350 to 5000

4...20mA, 2-Wire Technics

24VDC Power Supply

Programmable

IP67

Tare

Application examples:







Technical description

The very small measuring amplifier type Any range within the measuring range M2428-91 converts the measuring can be programmed by the customer. bridge directly to a 4...20mA 2-wire E.g. 45kg to 420kg = 4 to 20mA within signal.

companson to 1 Euro coin

of 12 bit, is pre-calibrated and the range of 0...30% of full scale from connected between the sensor supply outside with a simple permanent line and signal acquisition instrument magnet. Within this tare range the full (e.g. PLC).

The robust housing confirms the protected class IP67 and allows application in rough environments.

a calibrated range of 0 to 500kg.

The M2428-91 works with a resolution It is possible to tare the M2428-91 in measuring range remains available.

Technical Data:

Material: anodised aluminium, IP67, others on request

Signal output: 4...20mA for any given range

min. 1.5 x load without damage, breaking load 3 x range Overload

Measuring principle: Metallic strain gage, full bridge

Bridge resistance 350 to 5000⊠

Sensor sensitivity: 2mV/V pre-calibrated, others on request

Sensor supply:

Zero point: < 0.08% @ 25°C Zero stability: < 0.008% per °C Accuracy: < 0.08% @ 25°C Stability: < 0.0024% per °C

Creep after 30': < 0.5% Reproducibility: < 0.1% Linearity: < 0.05%

Rise time: < 50ms for 99% load change

Measuring rate:

16ms, programmable with programming adapter [16 bis 1000ms] 0 to 100% = 4 to 20mA, programmable with programming adapter [Zero 0 to 130%, Gain 0 to 130%] Input range:

Tare: 0 to 30% with a simple magnet from outside

Resolution: Hysteresis: < 0.3% Max. load, 24V: < 500⊠ 22 to 35VDC Power supply range: > 5000M⊠ @ 50VDC Insulation resistance:

Operating temperature: -10 to 40°C -25 to 65°C Max. working temperature: Storage temperature: -40 to 85°C

Cable ends: red = +24VDC, black = 4...20mA and shield Connection 2-wire signal:

Connection sensor: Connecting Pads: +5V, GND, out+, out-. On request factory-made connected

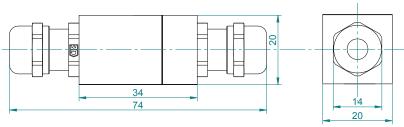
Cable length 2-wire signal: < 300m, 3m factory-made delivered Cable length sensor: < 3m, customer-made connected

Ordering example: M2428-91, 2mV/V

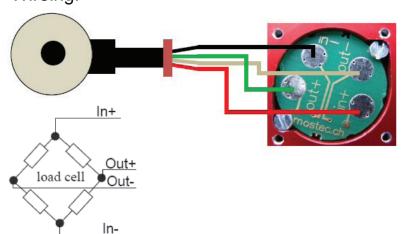
- USB programming unit for VETEK devices with cable and software Options:

- other sensor sensitivity - other measuring principle - customer specified functions

Dimensions in mm:



Wireing:



Programming:





Programming software



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