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Threshold Converter Type M2218-A (-T)



Technical description

The threshold converter M2218 is used to of 4 to 20mA. The M2218 monitors undercheck or control either a signal current or a and overpressure in the vessel. It converts temperature. A Pt-100 platinum sensor in 3- the 4...20mA signal current to 0...100.0%. wire mode can be connected to the unit. It The alarm is set between 0% (=1 bar) and converts the input signal to an internal 100.0% (=10 bar). With these floating standard signal of 0 to 100.0%. Two alarm contacts, overpressure valves, independent limit contacts can be set within compressor relays, etc. are driven this range.

All settings as limit values, hysteresis, range and operating mode of the contacts can be set with a PC-program.

The unit may be programmed to customers values or ranges by the factory.

A typical application would be to measure and monitor pressure in a process vessel: A pressure transmitter converts the pressure of 1 to 10 bar to a current signal output current source.

directly.

If a Pt-100 sensor is connected to the input, the unit works as a temperature monitor or as a simple temperature controller.

Optionally a galvanically isolated output signal of 4...20mA is available.

The 24VDC power supply is galvanically isolated from the input circuit and the

Technical Data:

Input signal: M2218-A: 4...20mA

M2218-T: Pt-100 platinum sensor with 3-wire connection,

temperature range: 0...160°C

M2218-A: 51 Ω Input load:

±0.2% at 23°C ambient temperature Accuracy:

Reproducibility: ±0.1%

Temperature coefficient: zero drift: 50ppM/°C typical, gain drift: 50ppM/°C typical

Long-term stability: ±0.2%

Working temperature range: -5 to +45°C

Maximum humidity: 95%, non-condensing

Programming: with a programming cable to a front panel miniature plug

Limit contacts: two, adjustable between 0.0 and 100.0% Hysteresis: computer programmable, see manual Contacts: floating normally open contacts

Max. contact load: 1A/48V resistive

Change limit contacts: computer programmable, see manual Display limit contacts: computer programmable, see manual

Current output: 4...20mA, galvanically isolated

Max. load: Output impedance: $>1M\Omega$ typical

24VDC, ±15% Power supply: <2.5W at 24VDC Power supply load:

CE-conformity: fulfilled

Terminals: 2 x 7-pole plug-in screw terminals

Terminal description: 1 = supply voltage: 24VDC(+) 2 = supply voltage: 24VDC(-)

3 = supply voltage: PE 4 = signal input PE

5 = M2218-T: input Pt-100 (+)6 = M2218-T: input Pt-100 (-)

M2218-A:input 4...20mA (+) M2218-A: input 4..20mA (-)

8 = signal output PE

7 = M2218-T: Pt-100 sense (-)

M2218-A: not used

9 = output 4...20mA: (+)10 = output 4...20mA: (-)12 = limit contact 2: (b) 11 = limit contact 2: (a) 13 = limit contact 1: (a) 14 = limit contact 1: (b)

40

0 45 8

85 140

10.0

DIN-standard case (L x W x H) 90 x 36 x 58mm Case:

Mounting: 35mm mounting rail, EN50022-35,

min. distance from one instrument to the next: 5mm

Dimensions (mm):

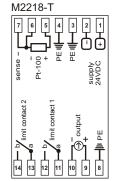
2

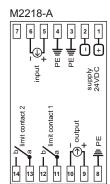
26.5 | 21.5

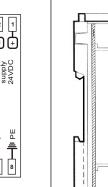
53.0 58.0

Weight: ~90g Warranty: 2 years

Wireing:









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