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## Programmable universal digital display Type M2229

### Input signals:

M2229-A

Current/Voltage

M2229-T

Temperature sensor

### Optional input signals:

pH

Conductivity

Frequency



### Technical description

The digital display M2229 is used to check or control any type of signal current or voltage. It converts the input signal to an internal standard signal of for example 0 to 100.0%. In this range two alarm contacts can be set independently. A 4-digit LED display shows the actual value and setpoints or alarm values in the range of -1999 to 9999 units.

All settings as alarm values, hysteresis, range and operating mode of the floating contacts can be set with a link cable, connected to a personal computer or a laptop.

Both alarm contacts can also be programmed with tiny push button switches.

A typical application would be to measure and monitor pressure in a process vessel. The pressure transmitter converts the pressure of 1 to 10 bar to a current signal of 4 to 20mA. The M2229 monitors under and overpressure in the vessel. It converts the 4... 20mA signal current to 0...100.0%. The alarm is set between 0% (=1 bar) and 100.0% (=10 bar). With these floating alarm contacts, overpressure valves, compressors, etc. are driven directly.

Optionally, a galvanic isolated output signal of 0...20mA or 4...20mA is available.

Power supply:

Universal supply 20 to 253VAC/DC

# Technical Data:

Input signal: M2229-A: 0/4...20mA/0...1V and 10V, programmable  
M2229-T: Platinum-/nickel, with 100,200,500 or 1000 at 0°C (DIN 43 760), in 2- or 3-wire connection  
current signal=51 , voltage signal=1M

Input load / impedance: 24VDC max. 25mA

2-Wire transmitter supply: 4-digit, LED red, 14.2 mm

Display: -1999...9999

Display range: ±0.1% at 23°C ambient temperature

Accuracy: ±0.1%

Reproducibility: zero drift: 30ppM/°C typical,  
gain drift: 25ppM/°C typical

Temperature coefficient: ±0.1%

Long-term stability: -5 to +45°C

Working temperature range: 95%, non-condensing

Maximum humidity: by computer programmable, see manual

Range adjustment: by computer programmable, see manual

Zero-/Gain adjustment: by computer programmable, factory set: ±5 digit, see manual

Option alarm contacts: two, adjustable between 0,0 and 100,0%

Hysteresis: by computer programmable, factory set: ±5 digit, see manual

Contacts: floating change over contacts

Max. contact load: 1A/230V resistive

Change alarm contacts: by button switches or computer programmable, see manual

Display alarm contacts: by button switches or computer programmable, see manual

Mode of the alarm contacts: with two red LED-Lamps

Display unit: with one red LED-Lamp

Option signal output: 0/4...20mA, galvanically isolated

Max. load: 500

Output impedance: >1M typical

Power supply: 20 to 253VAC or DC

Power supply load: 4.5 to 7.0W at 230VAC

CE-conformity: fulfilled

Terminals: plug-in screw terminals

Terminal description:

1 = supply voltage: AC~/DC(+)	2 = supply voltage: AC~/DC(-)
3 = supply voltage: PE	4 = signal output (+)
5 = signal output (-)	6 = signal output PE
7 = not used	8 = 2-Wire transmitter supply +24V
9 = signal input (-) / Sensor (-)	10 = signal input voltage (+) / Sensor (+)
11 = signal input current (+) / Sensor (-) Sense	13 = alarm contact 1, c.o. contact
12 = alarm contact 1, n.o. contact	15 = alarm contact 2, n.o. contact
14 = alarm contact 1, n.c. contact	17 = alarm contact 2, n.c. contact
16 = alarm contact 2, c.o. contact	

c.o.= change over  
n.o.= normally open  
n.c.= normally closed

Mounting: 2 mounting clamps

Weight: 200g

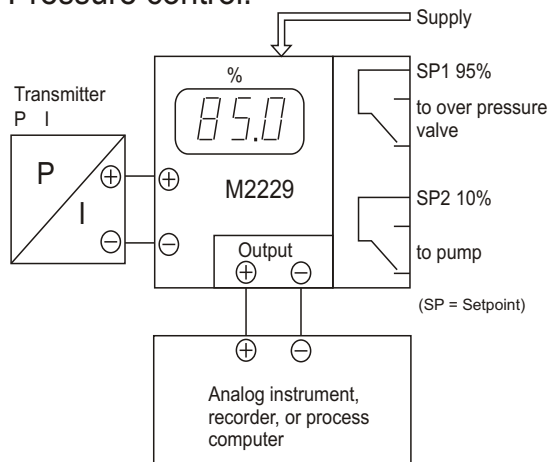
Warranty: 2 years

Options: - USB programming unit for MOSTEC devices with cable and software  
- Other input signal

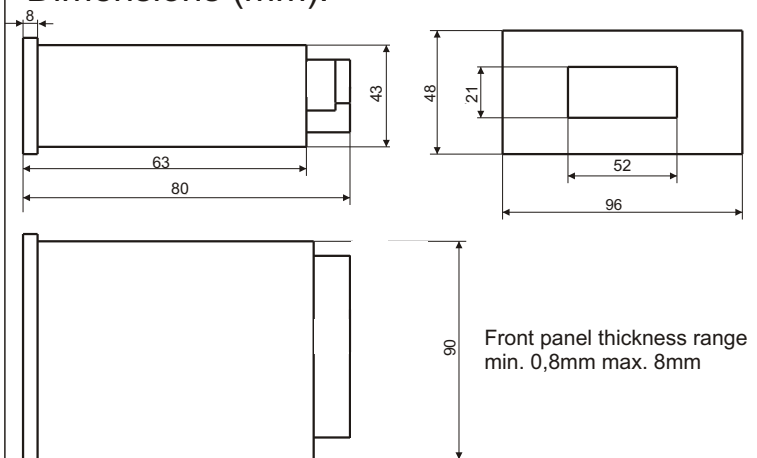
How to order example 1: M2229-ARS (A= input for current/voltage, R= alarm contacts, S= signal output),  
input 4...20mA, display 50...100,0%, SP1=2,00bar, SP2=9,50bar, hysteresis ±2digit,  
current output: 50...100,0% = 0...20mA

How to order example 2: M2229-T (T= input for temperature)

## Pressure control:



## Dimensions (mm):



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