

TECHNICAL DATA

Input Data

Measuring ranges : 10 mbar to 600 bar
Overload pressures : 1.5 times FSR
Tightening torque : 20 Nm
Mechanical connection : Threaded port 1/2" BSPM (other options available)
Parts in contact with medium : Stainless steel (other options available.)
Supply voltage : 18 .. 32 V DC
Current consumption : approx. 200 mA
Residual ripple of supply voltage : $\leq 10\%$
Electrical connection : 19-pole, circular MIL connector

Note: Reverse polarity protection of the supply voltage, excess voltage, override and short circuit protection are provided.

Output Data

Accuracy : $\pm 0.25\%$ FS max.
Repeatability : $\pm 0.1\%$ FS max.
Temperature drift : $\pm 0.03\%$ FS / °C max. zero point & range
Analogue output : 4 .. 20 mA ohmic resistance ≤ 400 Ohms
0 .. 10 V ohmic resistance ≥ 2 kOhms

Switch Outputs :

Type : 4 hermetically sealed SPDT relays with change-over contacts (independent potential free contacts)
Switching voltage and current : 5 A, 250 VAC / 5A, 30 VDC
Switching capacity : max. 1250 W / 1250 VA (for inductive load, use varistors)
Switching cycles : 1 million at minimum load
0.1 million at maximum load
Reaction time : < 20 ms

Environmental Conditions

Operating temperature range : $-25..+60$ °C
Storage temperature range : $-40..+80$ °C
Fluid temperature range : $-25..+80$ °C
(Also generally complies with EN 50178, Tab. 7, Type C, Class 4K4H Operation, 1K4 Storage, 1K3 Transport)

Protection class : IP 66

Other Data

Display : Full colour OLED display
Housing material : Stainless Steel case
Weight : ~ 800 g (noted for popular pressure gauge device type, varies with models)

SETTING OPTIONS

The core of the unit is a microprocessor which provides many useful extra functions in addition to normal pressure switch operation. It is possible, for example, to activate switching delay times to prevent fast pressure peaks from triggering an unwanted switching cycle. Most settings are made using the keypad. More options and ease of operation is possible through the mobile app.

Setting ranges of the switching points :

- Switching point relay 1 to 4 (upper value) : 1.5 % .. 100 % FS
- Switch-back relay 1 to 4 (lower value) : 1 % .. 99 % FS or alternatively

Additional setting options:

- Switching direction of the relays 1 to 4 : (N/C to N/O)
- Switch-on delay : relays 1 to 4 in the range 0.00 .. 99 seconds
- Switch-off delay relays 1 to 4 in the range 0.00 .. 99 seconds
- Switch-back mode (Auto reset / Manual reset)
- Display of the actual pressure / pressure + relay status / pressure + relay status and values
- Display range scale individually adaptable (bar, psi, several other units)
- Measurement unit is displayed
- Analogue outputs (4 .. 20 mA (other options settable) and 0 .. 10 V (other options settable))
- 3 security levels : viewer, operator and admin with different rights for each role