



Pressure transmitter PT5401

URL:<https://www.sxplc.com/pressure-transmitter-pt5401>

Product data sheet

Product characteristics

Number of inputs and outputs

Number of analog outputs: 1

Measuring range

0...250 bar

0...3625 psi

0...25 MPa

Process connection

threaded connection G 1/4 external thread (DIN EN ISO 1179-2)

Application

Application

for industrial applications

Media

liquids and gases

Medium temperature [°C]

-40...90

Min. bursting pressure

1200 bar

17400 psi

120 MPa

Pressure rating

625 bar

9060 psi

62.5 MPa

Note on pressure rating

static

Vacuum resistance [mbar]

-1000

Type of pressure

relative pressure

Electrical data

Operating voltage [V]

8.5...36 DC

Min. insulation resistance [MΩ]

100; (500 V DC)

Protection class

III

Reverse polarity protection

yes

Power-on delay time [s]

< 0.1

Inputs / outputs

Number of inputs and outputs

Number of analog outputs: 1

Outputs

Total number of outputs

1

Output signal

analog signal

Number of analog outputs

1

Analog current output [mA]

4...20

Max. load [Ω]

$(U_b - 8,5 \text{ V}) / 21,5 \text{ mA}$; @8,5V= 0 Ω ; @12V max. 160 Ω ; @24V max. 720 Ω

Short-circuit proof

yes

Overload protection

yes

Measuring/setting range

Measuring range

0...250 bar

0...3625 psi

0...25 MPa

Accuracy / deviations

Repeatability [% of the span]

$< \pm 0,05$; (with temperature fluctuations $< 10 \text{ K}$)

Characteristics deviation [% of the span]

$< \pm 0,5$; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)

Linearity deviation [% of the span]

$< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)

Hysteresis deviation [% of the span]

$< \pm 0,2$

Long-term stability [% of the span]

$< \pm 0,1$; (per 6 months)

Temperature coefficient zero point and span [% of the span / 10 K]

$< 0,1$ (-25...90 °C) / $< 0,2$ (-40...-25 °C)

Reaction times

Step response time analog output [ms]

1

Operating conditions

Ambient temperature [°C]

-40...90

Storage temperature [°C]

-40...100

Protection

IP 67; IP 69K

Tests / approvals

EMC

DIN EN 61000-6-2

DIN EN 61000-6-3

Shock resistance

DIN EN 60068-2-27

50 g (11 ms)

Vibration resistance

DIN EN 60068-2-6

20 g (10...2000 Hz)

MTTF [years]

686

Pressure equipment directive

sound engineering practice; can be used for group 2 fluids; group 1 fluids on request

Mechanical data

Weight [g]

60

Material

stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PEI

Materials (wetted parts)

stainless steel (630/1.4542/17-4 PH)

Min. pressure cycles

60 million; (at 1.2 times nominal pressure)

Tightening torque [Nm]

25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)

Process connection

threaded connection G 1/4 external thread (DIN EN ISO 1179-2)

Process connection sealing

FKM (DIN EN ISO 1179-2)

Restrictor element integrated

no (can be retrofitted)

Remarks

Remarks

BFSL = Best Fit Straight Line

LS = limit value setting

Pack quantity

1 pcs.

Electrical connection

Connection

