

Pressure Transmitter PA3020

URL:<https://www.sxplc.com/pressure-transmitter-pa3020>

Product data sheet

Product Characteristics

Number of Inputs/Outputs

Analog output: 1

Process connection

Pressure contact G 1/4 threaded thread

Application

Features

Gold-plated contacts

Applications

Industrial Applications

Media

Liquids and gases

Conditions of use

For use with gases exceeding 2.5 MPa, the product must be made to order only.

Media temperature [°C]

-25 to 90, (on request: -40 to 90 °C)

Minimum breakdown pressure [MPa]

100

Maximum permissible pressure [MPa]

60

Pressure type

Gauge pressure

Electrical Specifications

Operating supply voltage range [V]

DC 9.6 to 32

Insulation resistance [$M\Omega$]

100, (DC 500 V)

Protection class

III

Reverse connection protection

Yes

Inputs / Outputs

Number of inputs / outputs

Analog output: 1

Number of outputs

Maximum number of outputs

1

Output Signal

Analog signal

Analog output

1

Current output [mA]

4 to 20

Max. load [Ω]

720, ($U_b = 24 \text{ V}$, $(U_b - 9.6 \text{ V}) / 20 \text{ mA}$)

Overload protection circuit

Yes

Measuring range / setting range

Measuring range [MPa]

0 to 40

Accuracy / Error

Repeatability [% of span] < 0.1, (for temperature variation < 10 K)

< 0.1, (for temperature variation < 10 K)

Overall accuracy [% of span] < ± 0.25 (BFSL)

< ± 0.25 (BFSL) / < ± 0.5 (LS), (BFSL = Best Fit Straight Line, LS = Limit Setting)

Long-term stability [% of span]

$< \pm 0.05$, (every 6 months)

Temperature drift (TEMPCO) Zero point error [% / 10 K] <

0.1, (0 to 80 °C)

Temperature drift (TEMPCO) span error [% / 10 K] 0.2, (0 to 80 °C)

0.2, (0 to 80 °C)

Response time

Response time of analog output [ms]

3

Ambient operating conditions

Ambient operating temperature [°C]

-25 to 80

Storage temperature [°C]

-40 to 100

Protective structure

IP 68, IP 69K

Tests / Certifications

EMC

EN 61000-4-2 ESD

4 kV CD / 8 kV AD

EN 61000-4-3 High frequency radiation

30 V/m

EN 61000-4-4 Burst

2 kV

EN 61000-4-6 Withstand high-frequency inductive coupling

10 V

Radiated disturbance immunity

According to EU Automotive Directive 2004/104/EC

CISPR 25

Noise immunity

According to EU Automotive Directive 2004/104/EC

ISO 11452-2 High frequency radiation

100 V/m

ISO 7637-2 pulse

Severity level 4

Shock resistance

DIN EN 60068-2-27

50 ($\times 9.81 \text{ m/s}^2$) (11 ms)

DIN EN 61373

Category 3

Vibration resistance

DIN EN 60068-2-6

20 ($\times 9.81 \text{ m/s}^2$) (10 to 2000 Hz)

DIN EN 61373

Category 2

MTTF [years]

555

Pressure Equipment Directive

Sound engineering practice, available for PED fluid group 2, fluid group 1 on request

Railroad applications

DIN EN 50155 / IEC 60571

Klasse T3, C1, S1

Mechanical Specifications

Weight [g]

222.5

Material

Stainless steel 1.4404 (SUS316L), FKM , PA, EPDM/X

Material of media contact area

Stainless steel 1.4305 (SUS303), Ceramic, FKM

Minimum switching frequency

100 million cycles

