

4-20 mA Pressure Transmitters

Piezoresistive / ceramic pressure transmitters · SYK102 mechanical switch · vacuum pressure switches



SEGMENTsensor 4-20 mA pressure transmitters measure gauge, absolute and vacuum pressure from 0-0.1 bar to 0-400 bar with $\pm 0.25\%$ FS accuracy ($\pm 0.1\%$ FS high-accuracy option). 316L stainless steel or ceramic wetted parts, G $\frac{1}{4}$ / G $\frac{1}{2}$ / NPT / flush-diaphragm connections, 10-36 V DC loop power and IP68 protection suit hydraulics, HVAC, water, process and hydrogen applications.

- 0-0.1 to 0-400 bar
- $\pm 0.25\%$ FS ($\pm 0.1\%$ opt.)
- 4-20 mA 2-wire
- 316L / ceramic
- IP68
- ATEX option

TECHNICAL SPECIFICATIONS

Parameter	4-20 mA pressure transmitter	SYK102 mechanical switch	Vacuum pressure switch
Pressure range	0-0.1 bar to 0-400 bar (selectable)	0.5-8.5 bar adjustable	-1 to 0 bar
Accuracy	$\pm 0.25\%$ FS std. / $\pm 0.1\%$ FS high-acc.	Set point $\pm 2\%$	$\pm 2\%$ FS
Sensing principle	Piezoresistive silicon / ceramic	Bellows / bourdon tube	Piezoresistive / ceramic
Output	4-20 mA 2-wire / 0-10 V / RS485	SPDT relay 16 A / 250 V AC	NPN / PNP / relay / IO-Link
Supply voltage	10-36 V DC loop powered	—	10-30 V DC
Process connection	G $\frac{1}{4}$, G $\frac{1}{2}$, $\frac{1}{4}$ NPT, $\frac{1}{2}$ NPT, flush diaphragm	G $\frac{1}{4}$ male / $\frac{1}{4}$ NPT	G $\frac{1}{4}$ / $\frac{1}{4}$ NPT / custom
Wetted materials	316L SS / Hastelloy / ceramic	Brass / 316L on request	316L SS / PVDF
Electrical connection	2-wire loop / M12 connector	PG9 gland / terminal	M12x1 / cable
Media / ambient temperature	-40 °C to +125 °C / -20 °C to +85 °C	-20 °C to +80 °C / -20 °C to +70 °C	-20 °C to +80 °C / -20 °C to +70 °C
Overload	2-5× rated range	1.5× rated range	2× rated range
Protection rating	IP68 (1.5 m continuous)	IP65 (IP67 option)	IP67
Certifications	CE, RoHS, ATEX (option)	CE, RoHS	CE, RoHS, UL

TYPICAL APPLICATIONS

- HVAC & chillers
 - Refrigeration
 - Hydraulic systems
 - Water & pump systems
- Process & chemical
 - Vacuum applications
 - Compressors & pneumatics
 - Oil, gas & hydrogen

OEM OPTIONS

Custom ranges and set points · flush diaphragm for viscous media · Hastelloy / ceramic wetted parts · ATEX / IECEx explosion-proof · IO-Link and HART versions · private label

SELECTION FAQ

- Gauge or absolute pressure?**

Gauge (relative to atmosphere) for hydraulics, pumps and HVAC; absolute for vacuum, altitude-independent or sealed systems.
- What accuracy do I really need?**

$\pm 0.25\%$ FS covers most control loops; choose $\pm 0.1\%$ FS for test benches, calibration and custody-related measurement.

Request a quote or samples — we reply within 24 hours

- Email
- info@segmentsensor.com
- Online form
- www.segmentsensor.com/contact.html
- Product page
- www.segmentsensor.com/products/pressure-sensor.html
- Ordering
- MOQ 10 pcs · samples 1-5 pcs in 5-7 days · production 3-5 weeks



Scan for full specifications