

Technical Data for PS-Series Pressure Gauges



Tel: 888-290-6060

www.alicat.com/pressure

Compatible with some aggressive gases, Alicat's PS-Series pressure gauges accurately and rapidly measure the absolute or gauge pressure, or gauge pressure of process gases and liquids.

Standard Specifications (Contact Alicat for available options.)

Performance	PS-Series Gauges
Full scale pressure Standard Accuracy	± 0.25%
Full scale pressure High Accuracy Option	± 0.125%
Repeatability	± 0.08% Full Scale
Zero Shift and Span Shift	0.02% Full Scale / °Celsius
Operating Range / Turndown Ratio	0.5% to 100% Full Scale / 200:1 Turndown
Excess Pressure	128% FS Measurable
Burst Pressure	3 X Full Scale
Typical Response Time ¹	5 ms (Adjustable)
Warm-up Time	< 1 Second

1. Volumes, feed pressures, exhaust pressures and line sizing will determine the limits of response times.

Operating Conditions	PS-Series Gauges
Gas Compatibility	Compatible with all non-corrosive gases and select aggressive gases ¹
Operating Temperature	-10 to +50 °Celsius
Common Mode Pressure (Differential Pressure Units Only)	200 psig
Mounting Attitude Sensitivity	None
Ingress Protection	IP40
Wetted Materials	316LSS, FFKM (Kalrez) standard; Viton, EPDM, Buna, Neoprene as needed for some gases. If your application demands a different material, please contact Alicat.

1. In addition to all non-corrosive gases, PS Gauges are configured to operate with the following aggressive gases: Ammonia, Chlorine, Hydrogen Sulfide, Nitric Oxide, Nitrogen Dioxide, Nitrogen Trifluoride, Propylene, Sulfur Dioxide
The following gases are available upon request: Refrigerant gases to 100% (Refrigerant gases may require custom seals, consult Alicat.)
If your application requires another gas or gas mixture, please contact Alicat. For use with water or other liquids please contact Alicat.

Communication / Power	PS-Series Gauges
Monochrome LCD or Color TFT Display with integrated touchpad	Displays Pressure
Digital Output Signal ¹ Options	RS-232 Serial / RS-485 Serial / PROFIBUS ³
Analog Output Signal ² Options	0-5 Vdc / 1-5 Vdc / 0-10 Vdc / 4-20 mA
Optional Secondary Analog Output Signal ²	0-5 Vdc / 1-5 Vdc / 0-10 Vdc / 4-20 mA
Electrical Connection Options	8 Pin Mini-DIN / 9-pin D-sub (DB9) / 15-pin D-sub (DB15) / 6 pin locking
Supply Voltage	7-30 Vdc (15-30 Vdc for 4-20 mA outputs)
Supply Current	0.040 Amp

1. The **Digital Output Signal** communicates Pressure
2. The **Analog Output Signal** and **Optional Secondary Analog Output Signal** communicate Pressure
3. If selecting **PROFIBUS**, no analog signal is available. PROFIBUS units do not have the display. See PROFIBUS specifications for PROFIBUS supply voltages and currents. (www.alicat.com/profibus)

Mechanical Specifications

Pressure Product	Mechanical Dimensions	Process Connections ¹
PS Gauges	4.1"H x 2.4"W x 1.1"D	1/8" NPT Female

1. Compatible with Beswick®, Swagelok® tube, Parker®, face seal, push connect and compression adapter fittings. VCR and SAE connections upon request.

Standard Available Ranges

PS-Series Gauges		
-15 psig to 0 psig		
1 psid	1 psig	
5 psid	5 psig	
15 psid	15 psig	15 psia
30 psid	30 psig	30 psia
100 psid	100 psig	100 psia
	300 psig	300 psia
	500 psig	500 psia
Other ranges available. Please contact Alicat.		

Select One Unit of Measure when Ordering		
PSIA	inHG	Atm
PSIG	inH ₂ O	Torr
mmHG	mBar	kPa

PS-Series:

All standard ranges to 500 psig

