



bar

AGS4000

Standard Pressure Transmitter

FEATURES

- Suitable for the majority of industrial applications
- Pressure ranges available from 0-500 mbar to 0-700 bar
- Gauge or Absolute reference
- Reliable pressure measurement
- Long service life
- Robust yet compact designs



The AGS4000 series of general-purpose pressure transducers is designed for applications where economical price and reliable pressure measurement is required. Incorporating bonded strain gauge technology and utilising unique manufacturing techniques results in a lowcost, high quality transducer ideal for O.E.M applications.

SPECIFICATIONS

The AGS4000 series is constructed from stainless steel with 17/4 PH stainless steel diaphragm for ranges above 20 bar, and a ceramic diaphragm for lower ranges, the GENSPEC series of transducers are of a robust yet compact design.

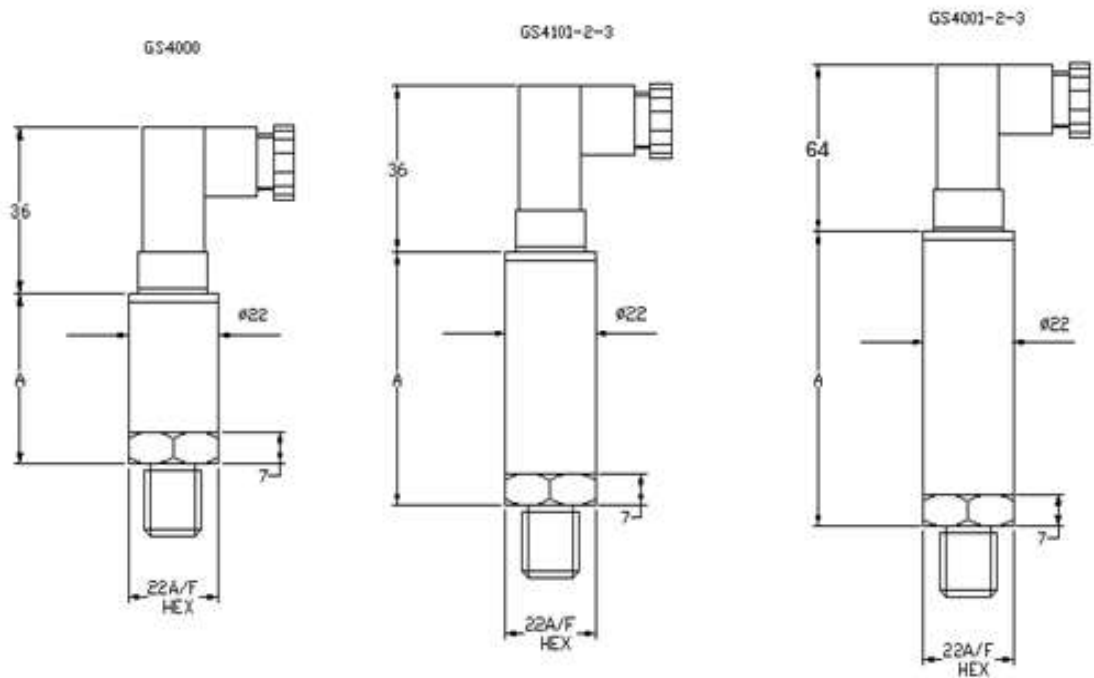
Available in pressure ranges from 0-0.5 bar to 0-700 bar, gauge or absolute and electrical outputs 0-2 mV/V, 0-5 Vdc, 0-10 Vdc and 4-20 mA (two wire).

Typical applications include:

- The continuous motoring of oil, gas, water and other liquids in a wide range of industries



DIMENSIONS (in mm)



| MODEL | DIMENSION ,A' (TYP.) |
|---------------------------|----------------------|
| AGS4000 / AGS4100 | 36 |
| AGS4001/2/3 & AGS4101/2/3 | 64 |

ELECTRICAL CONNECTIONS

| PIN No. | mV | VDC | |
|---------|---------|---------|---------|
| | 2 wire | 3 wire | 4 wire |
| 1 | +supply | common | -supply |
| 2 | 4-20mA | +supply | +supply |
| 3 | N/C | +output | +output |
| ↓ | to case | to case | -output |



TECHNICAL DATA

| Type | AGS4000 / AGS4100 | AGS4001 / AGS4101 | AGS4002 / AGS4102 | AGS4003 / AGS4103 |
|---------------------------------|---|-----------------------|------------------------|--------------------|
| Sensor Technology: | Ceramic Thick Film or Bonded Foil Strain Gauge | | | |
| Output Signal: | 2 mV/V typical (4 wire) | 0 – 5 V (3 or 4 wire) | 0 – 10 V (3 or 4 wire) | 4 – 20 mA (2 wire) |
| Supply Voltage: | 10 VDC (5 – 15 V) | 13 – 30 VDC | 13-30 VDC | 10 – 36 VDC |
| Pressure Reference: | Gauge (up to 700 bar) or Absolute (up to 400 bar) | | | |
| Protection of Supply Voltage: | Protected against supply voltage reversal up to 50 V (amplified versions) | | | |
| Standard Pressure Ranges (bar): | 0 – 1 bar Vac; 0 – 0.5 bar; 0 – 1 bar; 0 – 10 bar; 0 – 25 bar; 0 – 100 bar; 0 – 250 bar; 0 – 700 bar (other ranges available) | | | |
| Standard Pressure Ranges (psi): | 0-30 in Hg; 0-7.5 psi; 0-15 psi; 0-150 psi; 0-300 psi; 0-1,500 psi; 0-3,000 psi; 0-10,000 psi (other ranges available) | | | |
| Overpressure Safety: | 1.6x from ranges -1 bar to 20 bar; 2x for ranges 25 bar to 250 bar; 1.5 for ranges 400 bar (6,000 psi) to 700 bar (10,000 psi) | | | |
| Load Driving Capacity: | 4 – 20 mA: $RL < [UB - 13 V] / 20 \text{ mA}$ (e.g. with supply voltage (UB) of 36V, max. load (RL) is 1150 Ω); 2 mV/V: n/a; 0 – 5 V: max.load $RL > 5 \text{ K}\Omega$; 0 – 10 V: max. load $RL > 10 \text{ K}\Omega$ | | | |
| Accuracy NLHR: | $\leq \pm 0.4 \%$ of span BFSL | | | |
| Zero Offset and Span Tolerance: | $\pm 1.0 \%$ FS at room temperature (GS4000/GS4100: $\pm 0.2 \text{ mV}$) | | | |
| Operating Temperatures: | Ambient: -20 °C to +85 °C (-4 °F to +185 °F) Media: -20 °C to +85 °C (-4 °F to +185 °F) | | | |
| Storage Temperature: | +5 °C to +40 °C (+41 °F to +104°F) Recommended Best Practice | | | |
| Temperature Effects: | $\pm 2\%$ FS total error band for -20 °C to +70 °C. Typical thermal zero and span coefficients $\pm 0.03 \%$ FS/°C | | | |
| Electromagnetic Compatibility: | Emissions: EN61000-6-3; Immunity: EN61000-6-2; Certification: CE Marked | | | |
| Insulation Resistance: | $> 100 \text{ M}\Omega @ 50 \text{ VDC}$ | | | |
| Response Time 10-90%: | 1 mS | | | |
| Wetted Parts: | SAE 303 stainless steel, alumina and nitrile (NBR) seal for ranges up to 20 bar gauge and 400 bar absolute. 17/4PH and SAE303 stainless steel for ranges above 20 bar gauge | | | |
| Pressure Media: | All fluids compatible with SAE 303 stainless steel, alumina and nitrile (NBR) seal for ranges up to 20 bar, and 17/4PH stainlesssteel for ranges above 20 bar | | | |
| Pressure Connection: | 1/4" BSP male (G1/4) or 1/4" NPT male (others options available) | | | |
| Electrical Connection: | Mating micro DIN socket EN175301-803 Form C (ex DIN43650), a screw terminal connector rated IP65 (other optionsavailable) | | | |
| Net Weight: | 0.2 Kg for ranges up to 20 bar. 0.1 Kg for ranges above 20 bar | | | |



ORDER MATRIX

| Output | Sensor range | Wires | Type | Options | Pressure Range | Process Connection |
|--|--------------------|-------|---------|---------|----------------|--------------------|
| 2 mV/V | Model above 20 bar | 4 | AGS4000 | | | |
| | Model up to 20 bar | | AGS4100 | | | |
| 0-5 V | Model above 20 bar | 4 | AGS4001 | | | |
| | | 3 | AGS4011 | | | |
| | Model up to 20 bar | 4 | AGS4101 | | | |
| | | 3 | AGS4111 | | | |
| 0-10 V | Model above 20 bar | 4 | AGS4002 | | | |
| | | 3 | AGS4012 | | | |
| | Model up to 20 bar | 4 | AGS4102 | | | |
| | | 3 | AGS4112 | | | |
| 4-20 mA | Model above 20 bar | 2 | AGS4003 | | | |
| | Model up to 20 bar | | AGS4103 | | | |
| Electrical Connection/Options | | | | | | |
| DIN plug and socket | | | | - | | |
| Cable outlet 1m screened | | | | A | | |
| M12 connector | | | | B | | |
| Cable outlet 1m screened IP67 protection | | | | C | | |
| Pressure Range in bar | | | | | | |
| 0-1 bar Vac | | | | | V001 | |
| 0-0.5 bar | | | | | 0.05 | |
| 0-1 bar | | | | | 0001 | |
| 0-10 bar | | | | | 0010 | |
| 0-25 bar | | | | | 0025 | |
| 0-100 bar | | | | | 0100 | |
| 0-250 bar | | | | | 0250 | |
| 0-700 bar | | | | | 0700 | |
| Process Connection | | | | | | |
| 1/4" BSP male (G1/4) | | | | | | AB |
| 1/4" NPT Male | | | | | | AM |

Order Number Example AGS4003-V001AB

For options not listed please contact the sales team

DISCLAIMER: We operate a policy of continuous product development. We reserve the right to change specifications without prior notice. All products manufactured are calibrated using precision calibration equipment traceable to national measurement standards.