



- **PRESSURE RANGES** 0-500 mbar to 0-1500 bar
- **SEALED TO IP65** (IP66 & IP67 OPTIONAL)
- **±0.25% ACCURACY**
- **4-20 mA OUTPUT AS STANDARD,**
(0-100mV, 0-5V or 0-10V, OPTIONAL)
- **EASY ACCESS TO OUTPUT ADJUSTMENT**
- **WIDE OPERATING TEMPERATURE RANGE**
- **OUTSTANDING PERFORMANCE AND STABILITY**
- **AVAILABLE FROM STOCK**
- **CE APPROVED**
- **INTRINSICALLY SAFE OPTION**

DESCRIPTION

The GENSPEC GS4200 pressure transmitter is designed to meet the operational requirements of demanding pressure measurement applications where good quality, fast delivery and low cost are of the highest priority.

Utilising the latest digital calibration and compensation techniques, and the unique Silicon-On-Sapphire sensor technology the GS4200 provides outstanding performance and gives excellent stability over a wide temperature range. Accuracy is $\pm 0.25\%$ with an over pressure limit of twice the rated pressure range, this together with the standard output of 4-20 mA and easy access for re-calibration affirm the excellent design. All models are supplied with integral 1/4" BSP pressure connections. Optional connections are available using screw on thread adaptors.

The all titanium alloy wetted parts offer unbeatable corrosion resistance. Versions are also available offering IP66 sealing for installations requiring high levels of environmental protection.

Applications for the GS4200 include the continuous monitoring of hydraulic systems with oil, gas, water and other process liquids, industrial, medical and aerospace industries. Also ideal for the measurement and control of pressure in refrigeration, pneumatic, compressor, HVAC and engine monitoring systems.

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SPECIFICATION

PRESSURE RANGES:

0 to 0.5bar through to 1500 barG, see table below for list of all standard pressure ranges.

OVERPRESSURE:

Pressure can exceed rated range by the multiple shown below with no damage or change in calibration above $\pm 0.5\%$ FS.

4x for 0.5bar range
2x for ranges 1bar to 600bar
1.5x for 1000bar
1.1x for 1500bar

OUTPUT SIGNAL:

4-20 mA (2 wire configuration) as standard.

Optional outputs available are

0-5 Vdc (4 wire),
0-10 Vdc (4 wire),
0-100mV (4 wire).

ZERO OFFSET AND SPAN SETTING:

$\pm 0.08\text{mA}$

$\pm 5\%$ FS zero adjustment with easy access trimming potentiometer.

SUPPLY VOLTAGE:

Measured across supply terminals on connector plug

13-36Vdc for 4-20mA versions
13-30Vdc for 0-5V and 0-10V versions
5-15Vdc for 0-100mV version

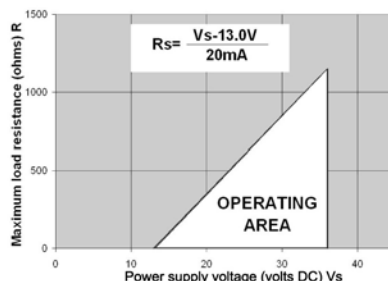
REVERSAL OF SUPPLY VOLTAGE:

Protected against supply voltage reversal up to 50Vdc

LOAD DRIVING CAPABILITY

(4-20mA version only):

Calculate maximum load see chart below.



eg with supply voltage load of 36vdc, maximum load is 1150ohms.

COMBINED NON-LINEARITY AND HYSTERESIS:

$\pm 0.25\%$ FS Best fit straight line definition.

REPEATABILITY:

$\pm 0.1\%$ FS Defined as maximum error between 3 consecutive pressure cycles.

LONG TERM STABILITY:

$\pm 0.1\%$ FS/year non-cumulative

PRESSURE MEDIA:

All fluids compatible with titanium alloy.

OPERATING TEMPERATURE RANGE:

Ambient: -40° to $+85^\circ\text{C}$

Media: -50° to $+125^\circ\text{C}$

Storage: 5° to 40°C

TEMPERATURE EFFECTS:

$\pm 1.5\%$ FS total error band for -20° to 70°C

Typical thermal zero and span coefficients

$\pm 0.015\%$ FS/ $^\circ\text{C}$

ELECTROMAGNETIC-COMPATIBILITY:

Emissions EN61000-6-4

Immunity EN61000-6-2

Certification CE marked

PRESSURE CONNECTION:

1/4" BSP or 1/4"NPT Male (others on request)

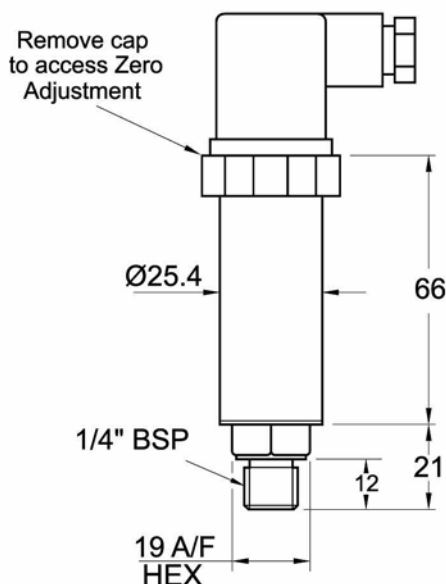
ELECTRICAL CONNECTION:

Mating socket with screw terminal connections to DIN 43650, rated IP65. Options include; alternative connectors, fly-lead with optional cable length and cable gland rated to IP66.

WEIGHT:

95 grams for standard unit with DIN43650 socket fitted.

DIMENSIONS (in mm)



ELECTRICAL CONNECTION

Pin No.	2 wire	4 wire
1	+supply	+supply
2	4-20mA signal	-supply
3	not fitted	+output
GND	to case	-output

ORDER DETAILS

State model number and pressure range required:-
e.g. GS4200 0-6barG

Model No.	DESCRIPTION
GS4200	4-20mA, 2 WIRE
GS4201	0-100mV, 4 WIRE
GS4202	0-5V, 4 WIRE
GS4203	0-10V, 4 WIRE

PRESSURE RANGES

0 - 1 bar Vac	0 - 40 barg
0 - 500 mbarg	0 - 60 barg
0 - 1 barg	0 - 100 barg
0 - 1.6 barg	0 - 160 barg
0 - 2.5 barg	0 - 250 barg
0 - 4 barg	0 - 400 barg
0 - 6 barg	0 - 600 barg
0 - 10 barg	0 - 1000 barg
0 - 16 barg	0 - 1500 barg
0 - 25 barg	

CALIBRATION

All products manufactured by Ellison Sensors are calibrated using precision calibration equipment with traceability to international standards.

Ellison Sensors operates a policy of continuous product development. We reserve the right to change specification without prior notice.

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