

esi

GENSPEC® GS4600 Universal Pressure Transmitter

- Piezoresistive silicon sensor technology for high performance
- Absolute, Gauge and Vacuum pressure ranges
- Accuracy rating 0.30 % of span BFSL
- Pressure ranges from 0.5 bar to 100 bar
- Adjustable zero and span access - DIN connector version only
- Flexible modular design for universal applications
- Robust 316 grade stainless steel construction
- Excellent corrosion resistance over a wide variety of industrial processes
- Cost solution for moderate quantity orders



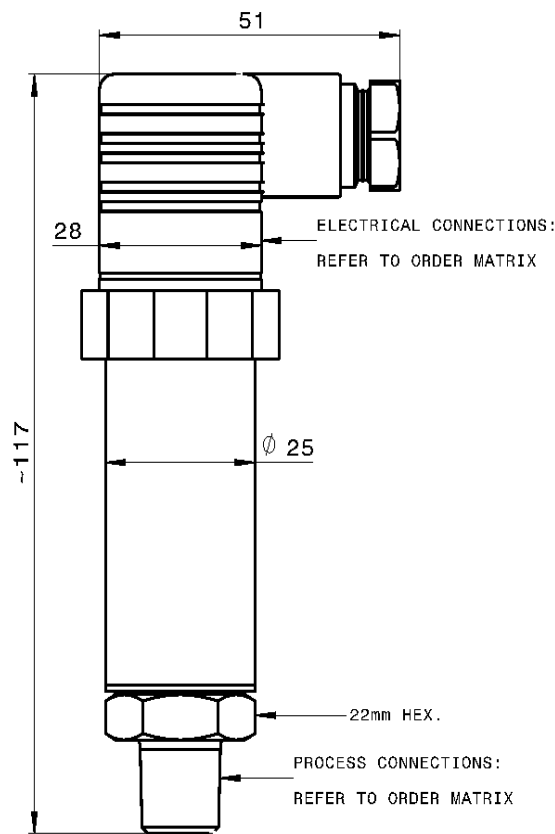
Specifications

The **GENSPEC GS4600** series of general purpose industrial pressure transmitters offers high performance pressure measurement up to 100 bar. Available in both absolute and gauge pressure ranges, the modular design of the GS4600 series means the product configuration can be adapted to provide cost effective and reliable solutions for moderate sized customer requirements

Typical applications include:

- Industrial processes and machine engineering
- Environmental engineering (waste water management, recycling, renewables)
- Pneumatic systems
- OEM solutions

Dimensions (in mm)



Electrical Connections

DIN Connection				M12 Connection				Cable Outlet			
		mA		VDC				mA		VDC	
Pin No.	2 wire	3 wire	4 wire	Pin No.	2 pin	3 pin	4 pin	Wire Colour	2 wire	3 wire	4 wire
1	+supply	-supply	-supply	1	+supply	-supply	-supply	Red	+supply	+supply	+supply
2	lout	+supply	+supply	2	N/C	+supply	+supply	Green	N/C	+output	+output
3	N/C	+output	+output	3	lout	+output	+output	Yellow	N/C	N/C	-output
⊥	to case	to case	-output	4	N/C	N/C	-output	Blue	lout	-supply	-supply

Technical Data

Type	GS4600	GS4602/GS4612	GS4603/GS4613
Sensor Technology:	Isolated Piezoresistive Silicon		
Output Signal:	4-20 mA	0-5 VDC (4 or 3 wire)	0-10 VDC (4 or 3 wire)
Supply Voltage:	10-36 VDC	10-30 VDC	13-30 VDC
Pressure Reference:	Absolute, Gauge, or Vacuum		
Protection of Supply Voltage:	Protected against supply voltage reversal up to 50 VDC		
Standard Pressure Ranges (bar):	0 – 1 bar Vac (gauge ref only); 0 – 0.5 bar; 0 – 1 bar; 0-1.6 bar; 0-2.5 bar; 0-4 bar; 0-6 bar; 0–10 bar; 0-16 bar; 0–25 bar; 0-40 bar; 0-60 bar; 0–100 bar; (other ranges available)		
Standard Pressure Ranges (psi):	0-30 in Hg (gauge ref only); 0-7.5 psi; 0-15 psi; 0-30 psi; 0-50 psi 0-100 psi; 0-150 psi; 0-200 psi; 0-300 psi; 0-500 psi; 0-1000 psi; 0-1500 psi; (other ranges available)		
Overpressure Safety:	4x for ranges to 0.5 bar; 2x for all other ranges		
Load Driving Capacity:	4-20 mA: $RL < [UB - 10 \text{ VDC}] / 20 \text{ mA}$ (e.g. with supply voltage (UB) of 36 VDC, max. load (RL) is 1300 Ω ; 0-5 VDC: max. load $RL > 5 \text{ K}\Omega$; 0-10 VDC: max. load $RL > 10 \text{ K}\Omega$		
Accuracy NLHR:	$\leq \pm 0.30 \%$ of span BFSL		
Zero Offset and Span Tolerance:	$\pm 0.5 \%$ FS at room temperature (GS4600: $\pm 1 \text{ mV}$); $\pm 5 \%$ FS (approx.) adjustment with easy access trimming potentiometers on amplified versions only		
Operating Ambient Temperature:	-20°C to +85°C (-4°F to +185°F)		
Operating Media Temperature:	-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:	$\pm 2.1\%$ FS total error band for -10°C to 70°C. Typical thermal zero and span coefficients $\pm 0.05 \%$ FS/ °C		
Electromagnetic Compatibility:	Emissions: BS EN61000-6-3; Immunity: BS EN61000-6-2; Certification: CE/UKCA Marked		
Insulation Resistance:	$> 100 \text{ M}\Omega @ 50 \text{ VDC}$		
Response Time 10-90%:	1 mS		
Wetted Parts:	SAE 316 stainless steel and Nitrile NBR O-Ring		
Pressure Media:	All fluids and gases compatible with SAE 316 stainless steel and Nitrile NBR		
Pressure Connection:	1/4"NPT male; G1/4 DIN3852-A (other options available on request subject to MOQ)		
Electrical Connection:	Mating socket EN175301-803 Form A (ex DIN43650) rated IP65 with PG9 cable entry		
Net. Weight (Kg):	0.3 Kg		

Order Matrix

Output	Wires	Type	Options	Pressure Range	Process Connection			
4-20 mA	2	GS4600						
0-5 VDC	4	GS4602						
	3	GS4612						
0-10 VDC	4	GS4603						
	3	GS4613						
Options								
DIN EN175301 plug and socket						-		
Cable outlet 1 m screened						A		
M12 connector						B		
Pressure Range - Absolute								
0-0.5 bar				0.5A				
0-1 bar				001A				
0-1.6 bar				1.6A				
0-2.5 bar				2.5A				
0-4 bar				004A				
0-6 bar				006A				
0-10 bar				010A				
0-16 bar				016A				
0-25 bar				025A				
0-40 bar				040A				
0-60 bar				060A				
0-100 bar				100A				
Pressure Range - Gauge								
0-1 bar Vac				V001				
0-0.5 bar				00.5				
0-1 bar				0001				
0-1.6 bar				01.6				
0-2.5 bar				02.5				
0-4 bar				0004				
0-6 bar				0006				
0-10 bar				0010				
0-16 bar				0016				
0-25 bar				0025				
0-40 bar				0040				
0-60 bar				0060				
0-100 bar				0100				
Process Connection								
1/4" NPT male					AM			
G1/4 DIN3852-A					GX			

Order Number Example GS4600-004AAM

For options not listed please contact the sales team

DISCLAIMER : ESI Technology Ltd operates a policy of continuous product development. We reserve the right to change specification without prior notice. All products manufactured by ESI Technology Ltd are calibrated using precision calibration equipment, traceable to national measurement standards.