

GENSPEC® GS4000

Standard Pressure Transmitter

- 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









odel: GS4003





The Genspec GS4000 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

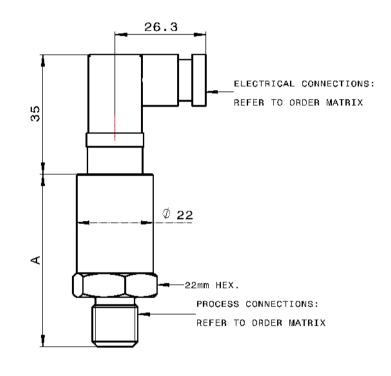
The GENSPEC GS4000 series is constructed from stainless steel with 17/4 PH stainless steel diaphragm for ranges above 20 bar, and a ceramic diaphragm for lower ranges, the GENSPEC series of transducers are of a robust yet compact design.

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.)		
GS4000/GS4100	36		
GS4001/2/3 & GS4101/2/3	64		

Electrical Connections

	mA	VDC		
Pin No.	2 wire	3 wire	4 wire	
1	+supply	common	-supply	
2	4-20mA	+supply	+supply	
3	N/C	+output	+output	
<u></u>	to case	to case	-output	





Technical Data

Туре	GS4000/GS4100	GS4001/GS4101	GS4002/GS4102	GS4003/GS4103		
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	13 – 36 VDC		
Pressure Reference:		Gauge (up to 700 bar) o	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; 0-1500 psi; 0-3000 psi; 0-10000 psi (other ranges available)					
Overpressure Safety:	1.6x from ranges -1 bar to 20 b	ar; 2x for ranges 25 bar to 25	50 bar; 1.5 for ranges 400 bar (6000 psi) to 700 bar (10000 psi)		
Load Driving Capacity:	4 – 20 mA: RL < [UB - 13 V] / 20 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 KΩ; 0 – 10 V: max. load RL > 10 KΩ					
Accuracy NLHR:		≤ ±0.4 %	of span BFSL			
Zero Offset and Span Tolerance:	±1.0 %FS at room temperature (GS4000/GS4100: ±0.2 mV)					
Operating Temperatures:	-20°C to +85°C (-4°F to +185°F)					
Storage Temperature:		+5°C to +40°C (+41°F to +104	°F) Recommended Best Practic	e		
Temperature Effects:	±2% FS total error b	and for -20°C to +70°C. Typic	cal thermal zero and span coeff	ficients ±0.03 %FS/°C		
Electromagnetic Compatibility:	Emissions: EN61000-6-3; Immunity: EN61000-6-2; Certification: UKCA &CE Marked					
Insulation Resistance:	> 100 MΩ @ 50 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	Туре	Options	Pressure Range	Process Connection
2 mV/V	Model above 20 bar	4	GS4000			
	Model up to 20 bar	4	GS4100			
	Model above 20 bar	4	GS4001			
0-5 V	Wodel above 20 bai	3	GS4011			
0-3 V	Model up to 20 bar	4	GS4101			
	Wodel up to 20 bai	3	GS4111			
	Model above 20 bar	4	GS4002			
0-10 V	Widdel above 20 bai	3	GS4012			
0-10 V	Model up to 20 bar	4	GS4102			
	Woder up to 20 bar	3	GS4112			
4-20 mA	Model above 20 bar	2	GS4003			
4-20 IIIA	Model up to 20 bar	2	GS4103			
Cable outlet 1m scr Pressure Range in	reened IP67 protection bar			С		
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	n					
1/4" BSP male (G1/	(4)					AB
1/4" NPT Male						AM

Order Number Example GS4003-V001AB

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.

