

Genspec GS4000

Standard Pressure Transmitter



- Suitable for the majority of industrial applications
- Pressure ranges available from 0-500 mbar to 0-700 bar (0-7.5 psi to 0-10,000 psi)
- Gauge or Absolute reference
- Reliable pressure measurement
- Long service life
- Robust yet compact designs





Description

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 low cost, high quality transducer ideal for O.E.M applications.

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. Applications include the continuous monitoring of oil, gas, water and other liquids in a wide range of industries.

GENSPEC transducers are compatible with the PM8000 range of panel meters and controllers to produce a simple low cost and accurate pressure measuring and control system.

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).

Dimensions (in mm)

Model	Dimension 'A'
GS4000/GS4100	36
GS4101,2,3	55
GS4001,2,3	64

ELECTRICAL CONNECTION (mA)					
Pin No. 2 wire 1 +supply 2 4-20mA signal 3 not fitted \(\frac{1}{4} \) to case					
=	to case				

ELECTRICAL CONNECTION (Vdc)				
Pin No. 1 2 3 <u>1</u>	4 wire 3 wire -supply common +supply +supply +output +output -output to case			



Model shown GS4003



Technical Data

Туре	GS4000/GS4100	GS4xx1	GS4xx2	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/ 10,000 psi) or Absolute (up to 400 bar / 5,800 psi)					
Protection of Supply Voltage:	Prot	ected against supply voltage rev	d against supply voltage reversal up to 50 V (amplified versions)			
Standard Pressure Ranges (bar):						
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 Capability:	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 > 10 K Ω					
Accuracy NLHR:	ccuracy NLHR: ≤ ±0.4 % of span BFSL					
Zero Offset and Span Tolerance:	± 1.0 %FS at room temperature (GS4000/GS4100: ± 0.2 mV)					
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:	$+5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ ($+41^{\circ}\text{F}$ to $+104^{\circ}\text{F}$) Recommended Best Practice					
Temperature Effects:	$\pm 2\%$ FS total error band for -20 °C to +70 °C. Typical thermal zero and span coefficients ± 0.03 %FS/°C					
Electromagnetic Compatibility:	Emissions: EN61000-6-3; Immunity: EN61000-6-2; Certification: 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 SAE 303 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 stainless steel 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 options available)					
Net. Weight (Kg):	0.2 Kg for ranges up to 20 bar. 0.1 Kg for ranges above 20 bar					



Order Matrix

Output	Sensor range	Wires	Туре	Electrical Connection/ Options	Pressure Range	Process Connection
2 1/0/	Model above 20 bar	4	GS4000			
2 mV/V	Model up to 20 bar		GS4100			
	Model above 20 bar	4	GS4001			
0.51/-	Model above 20 bar	3	GS4011			
0-5 Vdc	Madalani (201	4	GS4101			
	Model up to 20 bar	3	GS4111			
	M - d - l - l 20 l	4	GS4002			
0.101/-1-	Model above 20 bar	3	GS4012			
0-10 Vdc	Mardalana ta 20 han	4	GS4102			
	Model up to 20 bar	3	GS4112			
4.20 4	Model above 20 bar		GS4003			
4-20 mA	Model up to 20 bar	2	GS4103			
M12 connecto	or m screened IP67 protection			В		
Pressure Ran						-
0-1 bar Vac	(0-30 in Hg)				V001	
0-0.5 bar	(0-7.5 psi)				0.05	
0-1 bar	(0-15 psi)				0001	
0-10 bar	(0-150 psi)				0010	
0-25 bar	(0-300psi)				0025	
0-100 bar	(0-1,500 psi)				0100	
0-250 bar	(0-3,000 psi)				0250	
0-700 bar	(0-10,000 psi)				0700	
Process Conn						
1/4" BSP male						AB
1/4" NPT Male						AM

Order Num	her Examr	nie
Olaci Italii	DCI EXGIII	, i C

GS4003-V001AB

For options not listed please contact the sales team

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