



GENSPEC[®] GS4700

Compact OEM Pressure Transducer

- Piezoresistive silicon sensor technology for high performance
- Gauge or Absolute pressure ranges
- Pressure ranges from 14.5 psi to 1,450 psi (0.5 bar to 100 bar)
- Suitable for fluids and gases compatible with stainless steel
- Compact and lightweight design
- Wide choice of pressure connections, electrical connections, pressure ranges, output signals
- Excellent corrosion resistance for a wide range of industrial media
- Cost effective solution for industrial and OEM applications



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Specifications

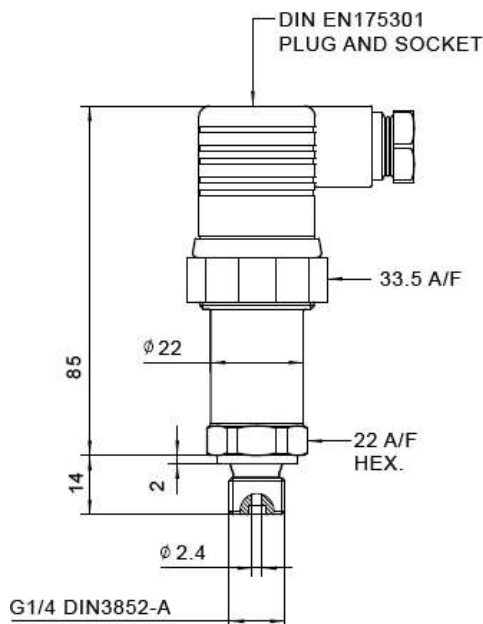
The **GENSPEC GS4700** series of general purpose industrial pressure transmitters offers reliable pressure measurement performance up to 100 bar. Available in both absolute and gauge reference, the compact design offers a flexible and cost effective solution for a wide variety of industrial applications

Typical applications include:

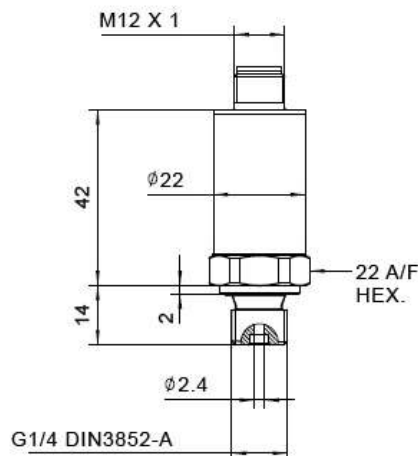
- Industrial processes and machine engineering
- Measurement of liquid and gas pressure
- Pneumatic applications
- OEM solutions

Dimensions (in mm)

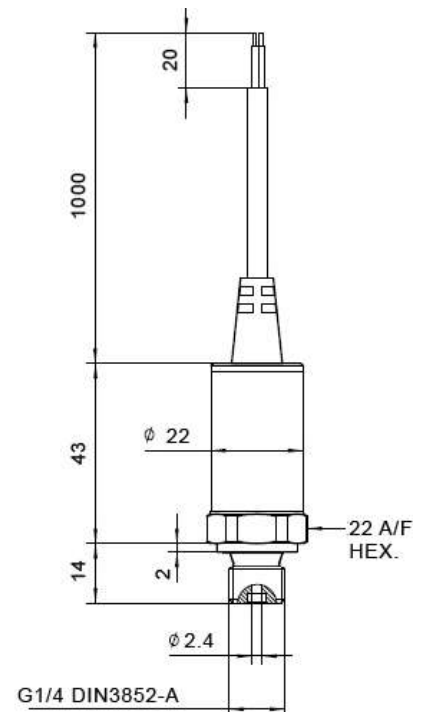
DIN Connection



M12 Connection



Cable Outlet



Electrical Connections

	DIN Connection	
	mA	VDC
Pin No.	2 wire	3 wire
1	+supply	-supply
2	lout	+supply
3	N/C	+output
⊥	to case	to case

	M12 Connection	
	mA	VDC
Pin No.	2 pin	3 pin
1	+supply	-supply
2	N/C	+supply
3	lout	+output
4	N/C	N/C

	Cable Outlet	
	mA	VDC
Wire Colour	2 wire	3 wire
Red	+supply	+supply
White	N/C	+output
Black	lout	-supply

Technical Data

Type	GS4700	GS4702	GS4703	GS4704
Sensor Technology:	Isolated Piezoresistive Silicon			
Output Signal:	4-20mA	0-5 VDC (3 wire)	0-10 VDC (3 wire)	0.5-4.5V ratiometric
Supply Voltage:	10-32 VDC	12-32 VDC		5 VDC ±10% max. 6.5 VDC
Pressure Reference:	Gauge or Absolute			
Protection of Supply Voltage:	Protected against supply voltage reversal up to 50 VDC			
Standard Pressure Ranges (bar):	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; 0-1,000 psi; 0-1,500 psi; (other ranges available)			
Overpressure Safety:	4x for ranges to 0.5 bar; 2x for all other ranges			
Load Driving Capacity:	0.5-4.5 VDC, 0-5 VDC and 0-10 VDC ≥ 4.7 kΩ, 4-20 mA ≤ (UV+ – 10 VDC) / 20 mA			
Accuracy NLHR:	≤ ±0.25 % of span BFSL			
Zero Offset and Span Tolerance:	±0.5 %FS at room temperature			
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:	±2.0 %FS total error band for -10°C to +70°C. Typical thermal zero and span coefficients ±0.04 %FS/ °C			
Electromagnetic Compatibility:	Emissions: EN61000-6-3; Immunity: EN61000-6-2; Certification: UKCA/ CE Marked			
Insulation Resistance:	> 100 MΩ @ 35 VDC			
Response Time 10-90%:	< 2mS			
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), M12 - DIN EN 61076 - 2-101A, Cable connection 1m (other options available on request subject to MOQ)			
Net. Weight (Kg):	DIN EN175301 approx. 110g M12 approx. 80g Cable output approx. 135g			

Order Matrix

Output	Wires	Type	Options	Pressure Range	Process Connection
4-20 mA	2	GS4700			
0-5 VDC	3	GS4702			
0-10 VDC	3	GS4703			
0.5-4.5V ratiometric	3	GS4704			
Options					
DIN EN175301 plug and socket			-		
Cable outlet 1m screened			A		
M12 connector			B		
Pressure Range - Absolute					
0-0.5 bar (0-7.5 psi)				0.5A	
0-1 bar (0-15 psi)				001A	
0-1.6 bar (0-23 psi)				1.6A	
0-2.5 bar (0-36 psi)				2.5A	
0-4 bar (0-58 psi)				004A	
0-6 bar (0-87 psi)				006A	
0-10 bar (0-145 psi)				010A	
0-16 bar (0-232 psi)				016A	
0-25 bar (0-360 psi)				025A	
0-40 bar (0--580 psi)				040A	
0-60 bar (0-870 psi)				060A	
0-100 bar (0-1,450 psi)				100A	
Pressure Range - Gauge					
0-0.5 bar (0-7.5 psi)				00.5	
0-1 bar (0-15 psi)				0001	
0-1.6 bar (0-23 psi)				01.6	
0-2.5 bar (0-36 psi)				02.5	
0-4 bar (0-58 psi)				0004	
0-6 bar (0-87 psi)				0006	
0-10 bar (0-145 psi)				0010	
0-16 bar (0-232 psi)				0016	
0-25 bar (0-360 psi)				0025	
0-40 bar (0--580 psi)				0040	
0-60 bar (0-870 psi)				0060	
0-100 bar (0-1,450 psi)				0100	
Process Connection					
1/4" NPT male					AM
G1/4 DIN3852-A					GX

Order Number Example

GS4700A0001GX

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.