



Genspec[®] GS4400

General Purpose Pressure
Transmitter with RS-485 Interface



- Silicon-on-Sapphire sensor technology for outstanding performance
- Pressure ranges to 1,500 bar
- Excellent corrosion resistance
- High strength titanium pressure port
- High resistance to overpressure and pressure transients
- High accuracy option
- RS-485 communication up to 1200 m
- Selectable baud rate
- Resistant to interference from noise



The GENSPEC GS4400 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.

Providing a half-duplex digital RS-485 output signal and 0-5V analog output, the GS4400 provides high stability





Technical Data

Type:	GS4400
Sensor Technology:	Silicon-on-Sapphire
Output Signal (Digital):	Proprietary RS-485 Protocol
Digital Signal Baud Rate:	9600, 14400, 19200, 28800, 57600
Output Signal (Analogue):	0V – 5V analogue output, 16bit
Sample Rate:	5Hz (max – digital), 1kHz (max – analogue)
Zero Output:	0V
Full Scale Output:	5V
Calibration Output:	Combination of digital and analog signal
Zero Adjustment Range:	User Programmable
Span Adjustment Range:	User Programmable
Supply Voltage:	6-36VDC
Pressure Reference:	Gauge
Protection of Supply Voltage:	Supply: up 36V Analog Output: -0.3V to 5.3V Digital Output: ±15KV ESD
Standard Pressure Ranges (bar):	0 – 1 bar Vac; 0 – 0.5 bar; 0 – 1 bar; 0-2.5 bar; 0-6 bar; 0 – 10 bar; 0-16 bar; 0 – 25 bar; 0 – 100 bar; 0 – 250 bar; 0-400 bar; 0 – 600 bar; 0-1,000 bar; 0 – 1,500 bar (other ranges available)
Standard Pressure Ranges (psi):	0-30 in Hg; 0-7.5 psi; 0-15 psi; 0-30 psi; 0-100 psi; 0-150 psi; 0-200 psi; 0-300 psi; 0-1,500 psi; 0-3,000 psi; 0-6,000 psi; 0-8,700 psi; 0-15,000 psi; 0-20,000 psi (other ranges available)
Overpressure Safety:	4x for 0.5 bar range; 2x for ranges -1 bar to 600 bar; 1.5x for 1,000 bar range; 1.1x for 1,500 bar range
Accuracy NLHR:	digital: ±0.15% of span BFSL, analog: ±0.25% of span BFSL
Zero Offset and Span Tolerance:	±0.6% FS
Operating Ambient Temperature:	-40°C to 85°C (-40°F to +185°F)
Operating Media Temperature:	-40°C to 85°C (-40°F to +185°F)
Storage Temperature:	+5 °C to +40 °C (+41 °F to +104°F) Recommended Best Practice
Temperature Effects:	±1%
Electromagnetic Compatibility:	Emissions: EN61000-6-3+A1 Immunity: EN61000-6-2 Certification: CE Marked
Response time 10-90 %:	(1000/update rate) + 1ms, <17ms
Bus Addressing:	User Programmable
Wetted Parts:	Titanium Alloy
Pressure Media:	All fluids compatible with Titanium alloy
Pressure Connection:	1/4" BSP male (G1/4); 1/4" NPT male; 1/2" BSP male (G1/2); 1/2" NPT male and 1/4" BSP female (others options available)
Electrical Connection:	M12, 5 pin connector, see table 1
Net. Weight (Kg):	<0.2 kg



Order Matrix

Output	Wires	Type	Electrical Connection	Pressure Range	Process Connection
RS485	6	GS4400			
Electrical Connection					
M12 Connector			B		
Pressure Range in bar					
0-1bar Vac				V001	
0-0.5 bar				00.5	
0-1 bar				0001	
0-2.5 bar				02.5	
0-6 bar				0006	
0-10 bar				0010	
0-16 bar				0016	
0-25 bar				0025	
0-100 bar				0100	
0-250 bar				0250	
0-400 bar				0400	
0-600 bar				0600	
0-1000 bar				1000	
0-1500 bar				1500	
Process Connection					
1/4" BSP Male (G1/4)					AB
1/2" BSP Male (G1/2)					AC
1/4" NPT Male					AM
1/2" NPT Male					AN
Order Number Example			GS4400B0600AB		

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.

