



Genspec[®] GS4200-USB

Digital Pressure Transducer



- USB powered digital pressure transducer
- Silicon-on-Sapphire sensor technology
- Choice of pressure ranges from vacuum to 4,000 bar
- Accuracy 0.15% NLHR
- Auto detection and configuration
- USB 2.0 compatible
- ESI-USB[®] downloadable software with auto update
- Measure & record up to 16 pressure inputs together
- Automatic temperature compensation
- Create customised test certificates
- Support for easy integration with applications created by C#, VB, Labview and Excel VBA (API .dll library)
- 2m lead & carry case included



Description

The GS4200-USB© Digital Pressure Transducer has been designed to measure, analyse and record pressure directly on your PC without the need for costly I/O interface boards. It allows the user to measure up to 16 pressure inputs simultaneously and easily create customised test certificates.

The transducer is USB 2.0 compatible and connects via a detachable USB lead. The data is captured by the ESI-USB© configurable Windows Interface software, and presented on-screen in real-time without loss of accuracy or bandwidth. It is compatible with Windows© 8, 8.1 and 10 and configures automatically with your desktop, laptop or tablet via USB protocol. It has instant connection and will automatically detect when a sensor is connected. The sample rate enables pressures to be measured with up to 21 bit resolution at user selectable speeds up to 5 Hz. Data can be displayed in graphical or tabular form, with a choice of pressure units and fully adjustable scales. Data can be saved to a file or exported to Excel, PDF and .csv.

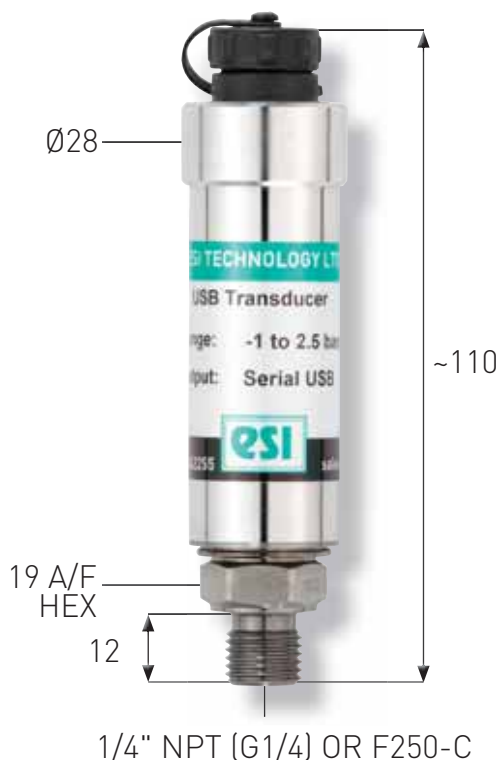
The ESI-USB software has many features including certificate generation, customisable certificate templates, leak testing, measure, record and view up to 16 sensors at the same time, virtual differential pressure measurement, set automatic test start and stop times, and alarm levels for each individual sensor. We are continually advancing the ESI-USB software, and the auto-update feature means that you will never miss a new version.

The unique Silicon-on-Sapphire sensor technology provides outstanding performance and gives excellent stability over a wide temperature range. Excellent measurement accuracy provides high resolution with a precision greater than 1 in 10,000. Nine pressure ranges have been carefully selected to enable the user to cover any pressure that the application requires, from vacuum up to 4,000 bar; via the use of the ESI-USB© digitally self-scaling software.

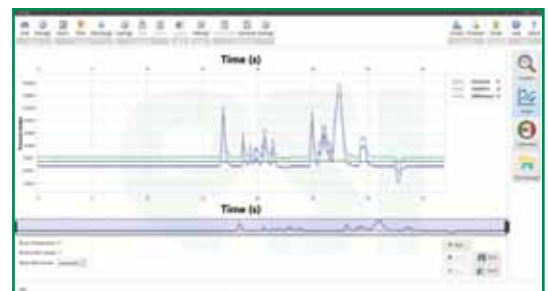
Each unit requires free download of the ESI-USB© software and is supplied with 2m USB lead (rated to IP68), and a convenient carry case.

Dimensions

(in mm)



ESI-USB Software



Graph Screen



Monitor Screen



Technical Data

Type	GS4200-USB
Sensor Technology:	Silicon-on-Sapphire (SoS)
Output Signal:	USB 2.0 compatible
Supply Voltage:	5 VDC via USB bus
Pressure Reference:	Gauge (default); Absolute reference input by user
Standard Pressure Ranges:	-1 to 2.5 bar; 0 – 16 bar; 0 – 100 bar; 0 – 400 bar; 0 – 1,000 bar; 0 – 1,500 bar; 0 – 2,000 bar; 0 – 4,000 bar
Standard Pressure Ranges (other):	User selectable for psi and other measurement units
Overpressure Safety:	2x up to 400 bar; 1.5x for 1,000 bar; 1.1x for 1,500 bar; 1.5x for 2,000 bar; 1.25x for 4,000 bar
Accuracy NLHR:	≤ ±0.15 % of span BFSL
Sample Rate:	User selectable to 5 readings per second (5Hz); resolution ³ 21 bits
Operating Ambient Temperature:	-20 °C to +85 °C (-4 °F to +185 °F)
Operating Media Temperature:	-50 °C to +125 °C (-58 °F to +257 °F)
Storage Temperature:	+5 °C to +40 °C (+41 °F to +104 °F) Recommended Best Practice
Temperature Effects:	±1.5 %FS total error band for -20 °C to +70 °C. Typical thermal zero and span coefficients ±0.015 %FS/ °C
Electromagnetic Compatibility:	EN61326-1, EN61326-2-3 (Laboratory equipment)
Wetted Parts:	Titanium alloy
Pressure Media:	All fluids compatible with titanium alloy
Pressure Connection:	1/4" BSP male (G1/4); 1/4" NPT male or F250-C (Autoclave)
Electrical Connection:	Mating to USB mini B socket for cable connection to PC. Supplied with 2m USB lead rated to IP68 as standard.
Software compatibility	Windows 8, Windows 8.1 and Windows 10
Net. Weight (Kg):	0.4 Kg

Order Matrix

Output	Type	Electrical Connection	Pressure Range	Process Connection
Standard (20 Hz)	GS4200-USB			
Electrical Connection				
Mating to USB mini B socket		-		
Pressure Range in bar				
-1 to 2.5 bar			02.5	
0-16 bar			0016	
0-100 bar			0100	
0-400 bar			0400	
0-1,000 bar			1000	
0-1,500 bar			1500	
0-2,000 bar			2000	
0-4,000 bar			4000	
Process Connection				
1/4" BSP male (G1/4)				AB
1/4" NPT male				AM
Autoclave F-250-C female (for pressures above 1,500bar)				DE

Order Number Example

GS4200-USB1500AB

For options not listed please contact the sales team



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