

ECHNOLOGYL D4200-USB

1.0 to 2.5 bary Serial USB



- Sample rate software selection up to 1,000 Hz
- Silicon-on-Sapphire pressure sensor technology
- Choice of pressure ranges from vacuum to 5,000 bar
- Accuracy (NLHR) ±0.15% of span BFSL
- Auto detect and configuration
- USB 2.0 compatible

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ange:

ESITEC

- ESI-USB© downloadable software with auto update
- Measure & record up to 16 pressure inputs together
- Create customised test certificate
- Automatic temperature compensation
- Support for easy integration with applications created by C#, VB, Labview and Excel VBA (api dll library)
- 2m lead & carry case included

Vers. 20/1/Eng



Description

The GD4200-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 onscreen 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 dynamic pressures to be measured with up to 21 bit resolution at user selectable speeds up to 1,000 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 enhancing the ESI-USB software, and the auto-update feature means that you will never miss a new version.

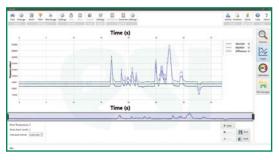
The unique Silicon-on-Sapphire sensor technology provides outstanding performance and gives excellent stability over a wide temperature range. Excellent measurement accuracy provides high resolution with a precision greater than I in 10,000. Nine pressure ranges have been carefully selected to enable the user to cover any pressure that the application requires, from vacuum up to 5,000 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

Туре	GD4200-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, 0 – 5,000 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; 1.2x for 5,000 bar;			
Accuracy NLHR:	$\leq \pm 0.15$ % of span BFSL			
Sample Rate:	User selectable to 1,000 samples per second (1,000 Hz) Resolution: 21 bits for \leq 5 Hz; 16 bits for $>$ 5 - 1,000 Hz			
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 -10 °C to +80 °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	Туре	Electrical Connection	Pressure Range	Process Connection
Dynamic (1,000 Hz)	GD4200-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	
0-5,000 bar			5000	
				-
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

GD4200-USB1500AB

For options not listed please contact the sales team