



AGD4200HUSB

Hydrogen Compatible USB Pressure Transducer

The AGD4200HUSB © 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 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 USB software has many features including certificate generation, customisable certificate templates, leak testing, Dimensions (in mm) 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 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 5,000 bar, via the use of the USB © digitally self scaling software.



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

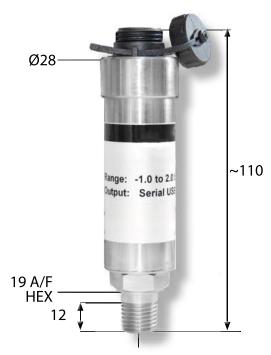
The suitability of the material for use with Hydrogen is confirmed following compatibility testing based on ISO 11114-2:2017 according to the European Regulations EC 79/2009 and EU 406/2010

FEATURES

- Compatible for use within Hydrogen based environments
- 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
- 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

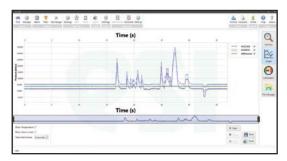


DIMENSIONS (in mm)



1/4" BSPM (G1/4) OR 1/4" NPTM OR F250-C

USB SOFTWARE



Graph Screen



Monitor Screen



TECHNICAL DATA

Туре	AGD4200HUSB	
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:	≤ ±0.15 % of span BFSL	
Sample Rate:	User selectable to 1,000 samples per second (1,000 Hz) Resolution: 21 bits for ≤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:	Hydrogen and 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)	AGD4200HUSB			
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 1,500ba	DE			

	A CD 42001 II I CD4 F00 A D
Order Number Example	AGD4200HUSB1500AB

For options not listed please contact the sales team

Version | 01.20