







Since the GS4200-USB© was introduced it has remained a unique character on the pressure measurement market and is used worldwide on hundreds of systems and applications.

It has been a success! But we wanted to make it better, and something our customers have always expressed interest in is a faster response time. We have responded with the Genspec Dynamic USB Transducer, or the GD4200. Combined with all of its other features, we're sure that the GD4200-USB will become your ideal digital pressure measurement solution.



SPEED

With a selectable sample rate up to 1000 readings per second (1000Hz) the GD4200-USB ensures that all pressure fluctuations are captured and you don't miss a thing!



The GD4200-USB is manufactured with Silicon-on-Sapphire (SOS) sensor technology. Pressure sensors constructed using SOS exhibit exceptional performance and outstanding stability.

The sapphire substrate allows the sensor to operate over a very wide temperature range without loss of performance due to its outstanding insulation properties.

The SOS sensor element is then bonded to a titanium diaphragm instead of traditional stainless steel. High overpressures, very low hysteresis and great corrosion resistance are the result.



We know how expensive data loggers can be. The GD4200-USB is an extremely cost effective solution for monitoring pressure and temperature with no need for costly I/O interface boards with configurable sampling speeds to suit your system needs.



PLUG-IN & PLAY

Pressure measurement has never been so easy! With the ESI-USB© software you can connect your transducer to your laptop or PC and be up & running within ten minutes.

The software recognises the transducer by its serial number. The software auto-updates and iscompatible with Windows 7, 8 & 10.



PRESSURE RANGE

With pressure ranges from vacuum all the way up to 5,000 bar we have a GD4200-USB for most applications.



TEMPERATURE MONITORING

In addition to measuring and recording pressure the GD4200-USB also charts and collects temperature data for analysis by the user.



CERTIFICATE GENERATOR

Using the ESI-USB® software you can generate customised test certification with your own test parameters and company logos.



PORTABLE

Whether you are looking to perform test and calibration, spot checks or local, direct monitoring the GD4200-USB is the convenient solution. With no need for any additional hardware or software you can test and record data on-site.



ACCURACY

The GD4200-USB boasts a standard accuracy of 0.15% making it the ideal solution for high accuracy applications. Temperature tolerance is excellent from a chilly -50 °C to a hot +125 °C you can rely on the data that the GD4200-USB provides.



MONITOR AND RECORD MULTIPLE

Measure and Monitor 16 Inputs at Once! Using a USB hub you can connect and collect data from up to 16 USB transducers and display live readouts on one screen at the same time.



AFTER-SALES SUPPORT

Got a question about the GD4200-USB? Need a bit of technical advice? We are on the other end of the phone (or email) ready to help.

Would you like more information? Contact our sales team on +44 (0)1978 262255 or email sales@esi-tec.com

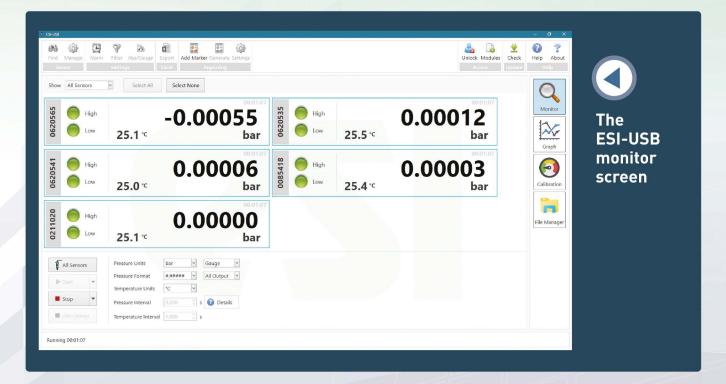
SPECIFICATION

TYPE GD4200-USB Sensor Technology Silicon

Sensor Technology	0	Silicon-on-Sapphire (SoS)
Output Signal	0	USB 2.0 compatible
Supply Voltage	0	5 VDC via USB bus
Pressure Reference	0	Gauge (default); Absolute reference input by user
Standard Pressure Ranges	O	-1 to 2.5 bar; 0 -16 bar; 0-100 bar; 0 - 400 bar; 0-1,000 bar; 0 -1500 bar; 0 -2000 bar; 0- 4000 bar; 0-5000 bar
Overpressure Safety	Ο	2x for ranges up to 400 bar; 1.5x for 1500 bar and 2000 bar ranges; 1.25x for 4000 bar range; 1.2x for 5000 bar range
Pressure Accuracy NLHR	O	≤ ±0.15 % of span BFSL
Sample Rate	0	0 - 5 Hz resolution >21 bits 5 - 1000 Hz resolution >16 bits
Operating Ambient Temperature	O	-20 °C to +85 °C
Operating Media Temperature	O	-50 °C to +125 °C
Storage Temperature	O	+5 °C to +40 °C (recommended best practice)
Temperature Effects	Ο	±1.5 %FS total error band for -10 °C to +80 °C. Typical thermal zero and span coefficients ±0.015 %FS/ °C
Electromagnetic Compatibility	O	Certification: CE Marked
Wetted Parts	0	Titanium alloy
Pressure Media	O	All fluids compatible with titanium alloy
Pressure Media Pressure Connection	O	All fluids compatible with titanium alloy 1/4" BSP male or F250-C (Autoclave)
	0	

SOFTWARE

ESI-USB® SOFTWARE







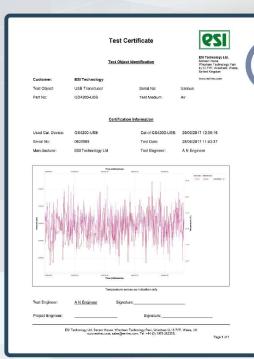
Free download from www.esi-tec.com

- Compatible with Windows 7, 8, 8.1 & 10
- Automatic update facility
- Ten selectable pressure units, now including Kpa
- Temperature units in °C and °F
- Storage Space Calculator Predict how much storage space your test will require
- Change the sample rate of the transducer- top speed 1000 Hz (1,000 samples per second)
- Delay test start & stop times to suit your application
- Zoom in on your test using the new slider feature
- View and record up to 16 connected sensors at full speed
- Read the differential using the Comparison feature









Customise your own test certificates GD4200-USB

9e: -1.0 to 2.5 barg

Nut: Serial USB

GD4200-USB **PART CODES** Electrical Pressure **Process** Type Connector Range Connection OUTPUT GD4200-USB USB 2.0 full speed connection **ELECTRICAL CONNECTION | OPTION** Mating to USB mini B socket 0 PRESSURE RANGE IN BAR 0 -1 to 2.5 bar 02.5 0 0-16 bar 0016 0 0-100 bar 0100 0 0400 0-400 bar 0 0-1,500 bar 1500 0 0-2,000 bar 2000 0 0-4,000 bar 4000 0-5,000 bar 5000 **ELECTRICAL CONNECTION | OPTION** 1/4" BSP male (G1/4) AB 0 1/4" NPT male AM Autoclave F-250-C female (for pressures above 1500bar) DE For options not listed please ORDER NUMBER EXAMPLE GD4200-USB 1500 AB contact the sales team

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