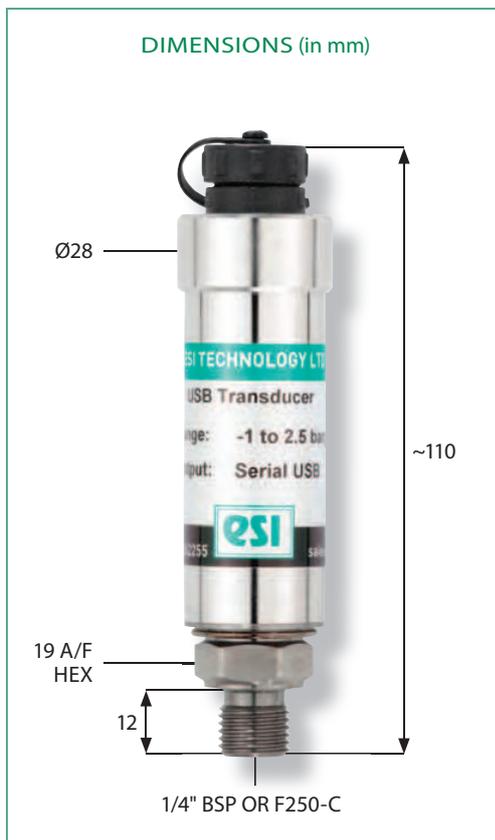# **Genspec** GS4200-USB

Digital Pressure Transducer

- Silicon-on-Sapphire sensor technology for outstanding performance and reliability

- Pressure ranges to 4,000bar

- Cost effective alternative to data loggers

- Quickly and easily record data from multiple pressure sources in one test

- Create customised test certificates

- Set up and ready to use within 10 minutes

CE

DESCRIPTION

The GS4200-USB© Digital Pressure Transducer has been designed to measure, analyse and record pressure directly on your computer 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 powered by the computer's USB port, data is then presented on the PC via the ESI-USB© configurable Windows Interface software supplied with the transducer. It has instant connection with auto-detection, and will configure automatically with your desktop or laptop pc via USB protocol. The sample rate enables dynamic pressures to be measured with up to 21 bit resolution. For real-time analysis, data transferred to the PC is achieved without loss of accuracy or bandwidth. This pressure transducer is USB 1.1 and USB 2.0 compatible, the ESI-USB© interface configuration and analysis software is compatible with Windows©7 and Windows©8 (32bit & 64bit), Vista, XP & 2000. 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.

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. Pressure ranges are available from 2.5bar to 4,000 bar. Each unit is supplied with ESI-USB© software, 2m USB lead rated to IP68 and a convenient carry case.

DIMENSIONS (in mm)

Ø28

USB Transducer

-1 to 2.5 bar

Serial USB

~110

19 A/F HEX

12

1/4" BSP OR F250-C

Genspec GS4200-USB

Digital Pressure Transducer

TECHNICAL DATA

Type:	GS4200-USB
Output signal:	USB 1.1 and 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; 0-1,500 bar; 0-2,000 bar; 0-4,000 bar
Overpressure Safety:	2x for ranges up to 400 bar; 1.5x for 1,500 bar and 2,000 bar ranges; 1.25x for 4,000 bar range
Accuracy NLHR:	±0.15% FS typical max. BFSL
Operating Ambient Temperature:	-20°C to +85°C
Operating Media Temperature:	-50°C to +125°C
Storage Temperature:	+5°C to +40°C (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
Wetted Parts:	Titanium alloy
Pressure Media:	All fluids compatible with titanium alloy
Pressure Connection:	1/4" BSP male, 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.

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 with traceability to international standards.

ORDER MATRIX

Output	Type	Pressure Range	Process Connection
USB 1.1 and USB 2.0 full speed connection	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	
0-1,500 bar		1500	
0-2,000 bar		2000	
0-4,000 bar		4000	

Process Connection

1/4" BSP male			AB
1/4" NPT male			AM
Autoclave F-250-C female (for pressures above 1500bar)			DE

Order Number Example   GS4200-USB1500AB

For options not listed please contact sales team.

GS4200-USB

GS4200-USB HP