

a Spectre Gorp

Model 9510U USB Enabled Pressure Transducer



- Direct USB 2.0 connection to data acquisition and test systems
- Transducer is custom configured to your specific temperature and pressure conditions
- ASCII data output to interface with virtually DAQ or control system
- Pressure ranges 0-10" WC to 0-30,000 PSI
- Gauge, sealed and absolute ranges
- Accuracies to 0.03% BFSL
- Unparalleled long-term stability
- Cable lengths to 300 feet (consult factory)
- Pressure and temperature data supplied from one device.
- Maximum RFI/EMI protection on every transducer
- Temperature compensation at the sensor element.
- Custom designs available (contact factory)

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Spectre's 9510U USB Pressure/Temperature Transducers offer the first precision USB 2.0 enabled sensors on the market that are designed and calibrated to each customer's specific operating conditions. *Each transducer is digitally mapped to correct for any non-linearity or inaccuracies in the sensor*. This digital correction provides the most accurate and flexible transducer in the industry.

Performance @ 25℃ (77℉)

Accuracy: <±0.05% BFSL (0.03% optional) Stability (2 year): <±0.05% FS, typical Over pressure protection: 2X Rated Pressure

Burst Pressure: 3X minimum Pressure Cycles: >50 Million

Environmental Data

Operating temp: -40 to +85℃ (-40 to +185℉)

(Optional to +250°F, consult factory)

Storage temp: -50 to +125 $^{\circ}$ C (-60 to +250 $^{\circ}$ F) Compensated range: 0 to 50 $^{\circ}$ C (+32 to +125 $^{\circ}$ F)

Temperature Accuracy: ±1F (±0.5℃)

Electrical Data

Excitation:

5 Vdc through USB 2.0 port on computer or powered hub

Output: ASCII over USB 2.0

Baud rate: 9600

Physical data

Sensor wetted material: 17-4 PH stainless (optional:

316ss, Inconel)

Pressure connection: 1/4 male NPT, SAE-4

(others on application)

Electrical Connection: USB 2.0 "A" connector (male)



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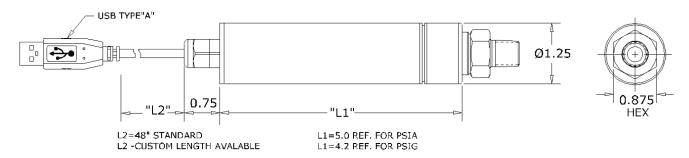


Ordering guide - Example: 9510U-A-(0-500PSI)-2-05-UC

Α	(0-500)	2	05	UC
Pressure Port	Range	Units	Accuracy	Connector
A=1/4" MNPT	Specify Pressure	1=Absolute	05=0.05% BFSL*	UC=USB "A" male connector with 4
B=SAE-4 male	Range in PSI, BAR,	2=Gauge	03=0.03% BFSL*	feet of cable
(w/o-ring)	kPa or inches WC	3=Vacuum		
C=Other		4=Sealed		
D=1/8"MNPT		5=Compound		
E=Autoclave F250C		6=Other		

*BFSL = Best Full Scale Line

Dimensions



OPTIONS MAY CHANGE OVERALL DIMENSIONS, CONSULT FACTORY

Notes:

- The Spectre Model 9510U pressure transducer is suitable for use with any system that can accept ASCII data input over a USB 2.0 connection.
- Every Model 9510U is shipped with the required drivers to interface the unit with PC based systems.
- Orders for 9510U transducers must include expected operating temperature of the process to insure maximum accuracy and linearity on your system. If not specified, the default calibration of 0°50°C will be applied.
- Calibration data and system readings can be accessed via standard terminal emulation programs.



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