

6600 SERIES Submersible Pressure Transducers

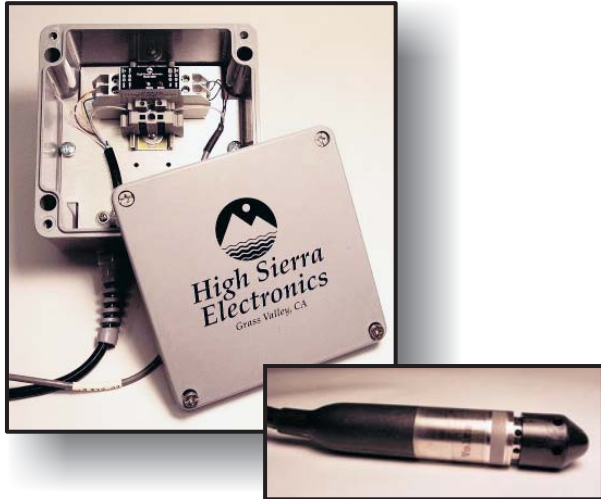
- ±0.1% Accuracy
- Totally Submersible
- Greater Than 4X Overpressure Capability
- Good Thermal Stability



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS

FAX: (530) 273-2089



DESCRIPTION:

The 6600 Series of Submersible Pressure Transducers have been designed for level measurement in applications where space is restricted. With a body diameter of only 0.69", they provide an important installation advantage in small diameter monitor wells, bore holes and standpipes. The 6600 Series is available in vented and sealed gauge ranges from 0 - 5PSI through 0 - 900PSI. The all titanium body construction ensures long term, reliable measurements in ground water, reservoir, stream and ocean applications.

The 6600 Series incorporates a miniature, silicon piezoresistive pressure sensor which features excellent resistance to shock and vibration. The standard accuracy is ±0.1%. Outstanding temperature performance is achieved by a proprietary thermal compensation process.

A tough, polyurethane cable is molded to the transducer to provide a high integrity, waterproof assembly. The cable is strengthened with Kevlar so that there is no measurable elongation when the cable is lowered into deep wells.

For applications where a very long cable length or current outputs are required, High Sierra Electronics offers a complimentary range of submersible pressure transducers providing 4-20mA output. Each sensor comes complete with its own desiccant box, 35' of submersible cable, 12.5' of 5 wire signal cable with 4 Pin rotated MS connector and desiccant DRI-CAN, model 4005 signal conditioning calibrated to 0-5V for a user specified range (0-20.47' or 0-40.95 are the most common).

SPECIFICATIONS:

Operating Ranges	Standard pressure ranges are expressed in PSI, gauge or sealed gauge as follows: 5 PSI (11.6' Water), 10 PSI (23.1' Water), 15 PSI (34.7' Water), 20 PSI (46.2' Water), 50 PSI (115' Water) 75 PSI (173' Water), 100 PSI (231' Water).
Overpressure	The rated overpressure can be exceeded by 4 times causing negligible calibration change.
Excitation Voltage	10 VDC Regulated @ 5mA Nominal
Output Voltage	5 PSI = 50mV, 10 PSI and above = 100mV
Output Impedance	2,000 Ohms Nominal
Zero Offset	±3mV Maximum
Span Setting	±10mV Maximum (Note: units of the same range are matched to closer than ±3mV.)
Operating Temp	-5°F. - +175°F. Standard (-20°C. - +80°C.)
Comp Temp Range	30°F. - 86°F. (-2°C. - +30°C.)
Temp Error	<0.3%
Acceleration Sntvy	0.003% FSO/g for 10 PSI decreasing to 0.0002% FSO/g for 500 PSI
Load Impedance	Greater than 100K ohms for quoted performance.
Resolution	Infinite
Non-Lnrty/Hysteresis	±0.1% BSL for All Ranges
Cable	Polyurethane Strengthened with Kevlar
Cable Length	35 Foot Standard
Size	0.69" D x 4.0" L
Weight	1.75 Pounds
Shipping Weight	4 Pounds

ORDERING GUIDE:

Model 6600-10	Pressure Transducer w/ Desiccant Box & 35 Foot Cable
-------------------------	---

OPTIONS:

6600-01	Extra Submersible Cable (1' increments)
6600-02	Extra Signal Cable (1' increments)
6600-04	Replacement Desiccant Box with Backplate. Includes 12' Signal Cable.
6600-06	Pressure Transducer with 0-5V Output; 15PSI. Includes 35' Submersible Cable.
6600-08	Pass-Thru Box with Signal Conditioning Circuit Card and 12' Signal Cable.
6600-11	Desiccant Box with Signal Conditioning Circuit Card. Includes 12' Signal Cable with 4-Pin MS Connector.
6600-13	Dual Pressure Transducer Signal Conditioning Circuit Card in Enclosure (for use with 2 Model 6600-06 Pressure Transducers).
6603-00	Pressure Transducer with 4-20mA Output and 35 foot Submersible Cable. Includes Desiccant Box.
6605-00	Pressure Transducer with 4-20mA Output; 2.5PSI. Includes Desiccant Box and 35' Submersible Cable.
6605-01	Pressure Transducer with 4-20mA Output; 1PSI. Includes Desiccant Box and 35' Submersible Cable.
6605-02	Pressure Transducer with 4-20mA Output; 5 to 900PSI. Includes Desiccant Box and 35' Submersible Cable.
6605-03	Pressure Transducer with 4-20mA Output; 1PSI. Includes Desiccant Box and 50' of Hytril (hydrocarbon resistant) Cable.
4005-02	Output Converter for Low-Level Pressure Transducer to 0-5VDC.

02-6600-00(B)

Environmental Monitoring Solutions

WEB SITE: www.highsierraelectronics.com E-MAIL: info@highsierraelectronics.com