

MODEL 6640

Submersible Pressure Transducer

- $\pm 0.1\%$ Accuracy
- Field Programmable
- Analog & RS485 Output
- Good Thermal Stability
- Polyurethane Submersible Cable



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS, INC.

FAX: (530) 273-2089



BENEFITS:

- Enhance Advanced Warning Systems to help predict possible flash flood events.
- Record water level fluctuations from year to year and make better water management decisions.
- Use as an effective tool for Storm water Management to determine possible sewer overflows.
- Provide more specific and timely information on the potential for flooded roads.

DESCRIPTION:

The 6640 Series of Submersible Pressure Transducers provides high accuracy over a wide range of operating conditions, making it ideally suited to environmental monitoring applications such as surface water, streams, and reservoirs.

The 6640 is built in the USA and features a compensated temperature range of 14° to 176° F (-10° to 80° C), a durable stainless steel housing (titanium optional for severe applications, Model 6642-00), and a dual output (analog & RS-485). The RS-485 output permits field programming of the pressure transducer.

The 6640 analog output is programmed at the factory for the desired range. It is programmed via an Interface Converter, Model 6640-15, with a USB to RS-485 output. It is recommended that each technician with responsibility for maintaining sites, be equipped with a Model 6640-15 Interface Converter in their toolkit. The Interface Converter allows the technician to set zero and span/range settings for the 6640 sensor.

An optional Model 5528 Pressure Calibrator is also recommended for maintaining pressure transducer sites. This is a highly precise digital manometer with integrated Max./Min. function for calibration and testing purposes.

02-6640-00(D)

Environmental Monitoring Solutions

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

Model 6640 Submersible Pressure Transducer

SPECIFICATIONS:

Operating Ranges

Relative	Infinite between 0 to 3 ft and 0 to 900 ft (0 to 0.9 m and 0 to 274.3 m) Water Column (WC)
Absolute	Infinite between 0 to 29.008 PSIA and 0 to 159.544 PSIA (0 to 2 bar to 0 to 11 bar)
Accuracy	± 0.1% FS, includes hysteresis, linearity, and repeatability
Resolution	0.002% Full Scale
Comp Temp range	14° to 178° F (-10° to 80° C)
Temperature Effects	Total Error Band is ± 0.25% 14° to 132° F (-10 to 55.56° C)
Output	4 to 20 mA + RS-485, or, 0 to 5 VDC, 0 to 10VDC

Voltage Supply

Model 6640 13 to 28 VDC

Model 6641 11 to 28 VDC

Wetted Materials Standard 316L Stainless Steel (Optional Titanium), Polyamide, Fluorocarbon

Environmental Protection IP68

Cable 12 ft (3.7 m) Signal Cable / 35 ft (10.7 m) Submersible Cable

Dimensions

Model 6640-00 3.74 x 0.825 inches (9.5 x 2.1 cm) (L x Dia)

Model 6641-00 4.52 x 0.825 inches (11.5 x 2.1 cm) (L x Dia)

Weight 4.75 lbs (2.2 kg)

Shipping Weight 9 lbs (4.1 kg)

Warranty 2 Years manufacturer warranty (Sensor)
3 Years from date of shipment (Desiccant Box)

ORDERING GUIDE:

Model 6640-00 Pressure Transducer (15 psi); Stainless Steel, 0-5 V output, 35 ft (10.7 m) Submersible cable, Desiccant Box, Interconnect Module & 12 ft (3.7 m) Signal cable.

Model 6640-03 Pressure Transducer (15 psi); S.S. 0-5 V output, 35 ft Submersible cable. (Sensor only)

Model 6641-00 Pressure Transducer (15 psi); Stainless Steel, 4-20mA output, 35 ft (10.7 m) Submersible cable, Desiccant Box, Interconnect Module & 12 ft (3.7 m) Signal cable.

Model 6641-03 Pressure Transducer (15 psi); S.S., 4-20 mA output, 35 ft (10.7 m) Submersible cable. (Sensor only)

Model 6642-00 Pressure Transducer (15 psi); Titanium, 0-5 V output, 35 ft (10.7 m) Submersible cable, Desiccant Box, Interconnect Module & 12 ft (3.7 m) Signal cable.

OPTIONS/SPARE PARTS:

Model 6640-01 Extra Submersible Cable (1 ft. increments)

Model 6640-02 Desiccant Box Enclosure; Installed interface circuit board & 12 ft (3.7 m) signal cable.

Model 6640-05 Desiccant Box Assembly; Use w/ Dual Model 664X Pressure Transducers. Includes: pass thru board & 12 ft (3.7 m) signal cable.

Model 6640-15 Interface Converter; to calibrate Model 664X Pressure Transducers.

Model 5528-00 Portable Low Pressure Calibrator w/ Carry Case.

Model 5001-00 Desiccant Pak; 8 oz. Moisture control desiccant package.

Model 5001-01 Desiccant Pak; 4 oz. Moisture control desiccant package.

Model 5000-00 Desiccant DRI-Can Moisture control desiccant package.

See www.highsierraelectronics.com for more specification and ordering information. 02-6640-00(D)