

# MODEL 6604

## Submersible Pressure Transducer

- $\pm 0.05\%$  Accuracy
- Overload Safe for Up to 5X the Measuring Range
- SDI-12 Output
- High Quality Stainless Steel Housing



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS

FAX: (530) 273-2089



The Model 6604 SDI-12 Submersible Pressure Transducer offers precise and reliable measurement of water levels in ground and surface waters. It is ideally suited for waterways that occasionally ice over or do not contain water throughout the year. The transducer uses a rugged capacitive ceramic pressure cell which enables it to safely withstand an overload safe for up to five times the measuring range without permanent mechanical damage.

The sensor is reliable, accurate, and particularly robust. Highlights include a Kevlar-strengthened pressure sensor cable with integrated compensating capillary, high quality stainless steel housing, an internal temperature sensor that detects and automatically compensates for variations, and an absolutely waterproof cable connection.

The 6604 is supplied with an SDI-12 output. This standard protocol allows the user to communicate with the sensor for easy set-up, calibration, and measurement control. The SDI-12 interface accepts and decodes instructions and enables the sensor to interface with either a data transmitter or data logger. NOTE: Upon request, the 6604 can also be supplied with an analog 4-20mA output.

### SPECIFICATIONS:

Resolution .....	0.001m; 0.1 cm, 0.01 ft., 0.1 mbar; 0.001 PSI
Accuracy .....	$\pm 0.05\%$ FS
Linearity + Hysteresis .....	$\pm 0.1\%$ / Year FS
Zero Point Drift .....	$\pm 0.1\%$ FS
Operating Temp Range .....	-13° F. to +158° F
Temp Measurement Accuracy	
Resolution .....	0.1° C. / 0.1° F.
Accuracy .....	$\pm 0.5^\circ$ C. / $\pm 32.9^\circ$ F.
Capacitive Pressure Sensor.....	Overload Safe for up to 5X the Measuring Range without permanent mechanical damage
Temp Sensor .....	NTC temperature sensor
Supply Voltage .....	+9.6 to +28 VDC, typically 12/24 VDC
Power Consumption.....	< 600 uA at rest, >3.6 mA active
Reaction Time .....	5000 ms boot time, >2000 ms measuring time
Housing .....	POM, Stainless Steel 1.4539 Housing (resistant to sea water)
Size .....	7.7" L X 0.9" W
Weight.....	10 oz. (sensor only)
Shipping Weight .....	2 Pounds

### ORDERING GUIDE:

Model 6604-00.....	SDI-12 Submersible Pressure Transducer with Desiccant Box & Signal Conditioning for Model 3206 ALERT/IFLOWS Data Transmitter
Model 6604-01.....	Dual SDI-12 Submersible Pressure Transducer with 1 Desiccant Box
Model 6604-02.....	SDI-12 Submersible Pressure Transducer with Desiccant Box
Model 6604-15.....	Submersible Cable (per per meter from factory)

**NOTE:**

*Upon request, the Model 6604 can be supplied with a 4-20mA output.*

02-6604-00(A)

*Environmental Monitoring Solutions*

**WEB SITE:** [www.highsierraelectronics.com](http://www.highsierraelectronics.com) **E-MAIL:** [info@highsierraelectronics.com](mailto:info@highsierraelectronics.com)