

## Model 524

### Slimline Immersible Pressure Transducers

Gauge Pressure



Setra System's Model 524 new slim-line, fully immersible pressure transducers are ideal for industrial and residential water level applications that require exceptional long-term stability, immersibility, and high accuracy.

Immersible to 200mWG, the Model 524 is rated for IP68 operation. Its custom hermetic header is triple sealed and guaranteed to eliminate the potential of water intrusion in the transducer even if the cable sheath is damaged.

All wetted parts are constructed of corrosion resistant 316 Stainless Steel, Polyurethane, and Acetal, which makes the sensor resistant to the effects of condensation caused by a high humidity environment, assuring long-term stability and service.

The Model 524 offers 0.25% FS accuracy, compensated temperature range of -15°F to +120°F (-10°C to 50°C), operating temperatures as low as -40°F to 180°F (-40°C to 80°C), and gauge pressure ranges from 33 ft. WG (10m WG) up to 656 ft. WG (200m WG).

The Model 524's modular design is offered in a wide choice of millivolt, voltage or current, outputs over almost any pressure range, and a variety of pressure and electrical connections, enabling this unit to be custom configured for your OEM application.

#### Principle of Operation

Micro-Electro-Mechanical Systems (MEMS) brings together silicon-based microelectronics with micromachining technology. The electronics are fabricated using integrated circuit process sequences (e.g., CMOS, Bipolar, or BICMOS process,) and mechanical elements, such as strain gauge sensors are fabricated using compatible micromachining processes that etch away part of the silicon wafer or add new layers to form the mechanical and electromechanical devices, providing a complete system-on-a chip.

## Applications

- Ground Water Table Levels
- Liquid Level
- Industrial and Municipal Wells

## Benefits

- Superior Stability  
Avoids Down Time
- Small 3/4 inch Diameter FootPrint
- $\pm 0.25\%$  FS Accuracy
- Millivolt, Voltage, or Current Outputs
- Less than 10ms Switch On/Setting Period
- Triple Sealed to ensure Long-Term Immersibility
- IP68 Rated
- Meets  $\text{CE}$  Conformance Standards

*When it comes to a product to rely on - choose the Model 524 .  
When it comes to a company to trust - choose Setra.*



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## 800-257-3872

