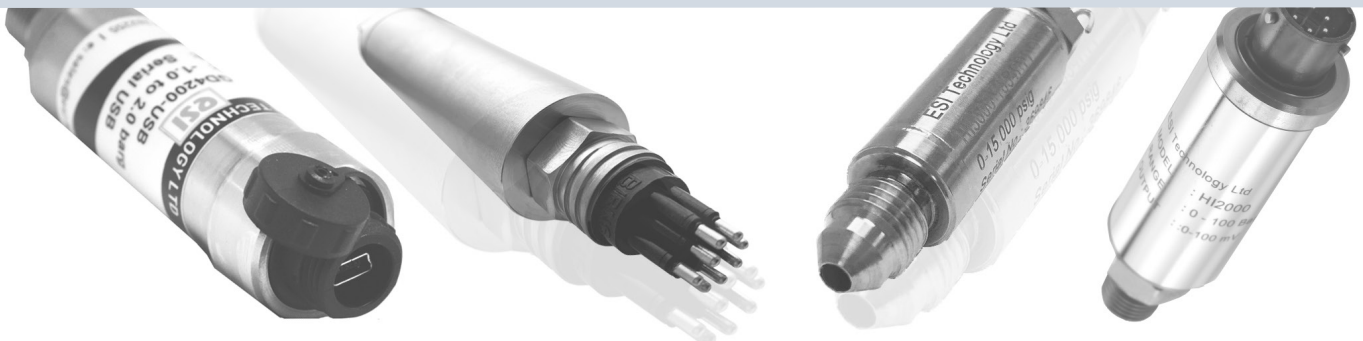


# OIL, GAS, SUBSEA

PRESSURE TRANSDUCERS



# OIL, GAS & SUBSEA

Pressure measurement is crucial in the oil & gas industry, especially as exploration moves to more challenging environments. As systems become more complex, the demand for pressure transducers and sensors increases. ESI Technology manufactures high-quality, reliable products specifically designed to handle higher static pressures, aggressive processes, and harsh conditions. With extensive experience in the field, SUCO ESI North America offers proven solutions, particularly for deep-water subsea applications, where we provide specialized transducers for control valve operation and immersion up to 6,000 meters.



## SUCO ESI North America

- Over 80 years of experience in pressure monitoring.
- Fully function-tested and approved before leaving our production facility.
- Our sensors are recognized in the oil, gas, subsea, and petrochemical industries for their accuracy and safety.
- ATEX/IECEX certification on select models ensures compliance with safety standards.

## SOS Technology

The combination of silicon and sapphire creates a durable sensor with exceptional stability and minimal hysteresis. Sapphire's insulation protects against electromagnetic pulses and ensures reliable performance across a wide temperature range. It resists high overpressures and corrosion, while its elasticity guarantees high repeatability, making it ideal for sensors.

### Advantages:

- Titanium pressure diaphragm is welded to titanium threaded pressure port therefore no o-ring seals
- High accuracy
- High resistance to over-pressure (proof pressure) and pressure transients
- Excellent chemical resistance
- Stable at elevated temperatures
- High sensitivity 10mV/V to 20mV/V
- Pressures from -1 bar to 5000 bar
- Constructed using machined titanium parts



## Downhole Pressure Transducer - HI5000

Introducing a truly exceptional product designed for the most demanding applications. This high-performance sensor is designed to withstand extreme shock, vibration, and temperature while maintaining precise accuracy. At just 58mm, it's compact yet durable, with a tough, corrosion-resistant build for long-term downhole pressure monitoring.

Easy to install in challenging environments, it's the perfect choice for reliability and resilience.

- Silicon-on-sapphire sensor technology for outstanding stability
- High temperature up to 392°F (200°C)
- High pressures up to 2000 bar
- NACE certified materials
- All-welded and sealed construction for use in harsh environments
- Applications for downhole, oil and gas



**Compact, Durable, and High-Performance**

Standard pressure ranges:

0 - 400 bar; 0 - 600 bar; 0 - 1,000 bar; 0 - 1,500 bar

## High Temperature Pressure Transducer - HI6000

Standard pressure ranges:

0 -1 bar Vac; 0-0.5 bar; 0-1 bar; 0-2.5 bar; 0-6 bar; 0-10 bar; 0-16 bar; 0-25 bar; 0-100 bar; 0-250 bar; 0-400 bar; 0-600 bar; 0-1,000 bar; 0-1,500 bar

- High ambient temperatures up to 302°F (150°C)
- Silicon-on-Sapphire sensor technology for outstanding performance
- Titanium wetted parts for excellent chemical compatibility
- High thermal stability over wide temperature range
- High accuracy version available
- Applications for aerospace and general industries



## Digital Pressure Transducer - GD4200-USB

Standard pressure ranges:

-1 to 2.5 bar; 0 – 16 bar; 0 – 100 bar; 0 – 400 bar; 0 – 1,000 bar;  
0 – 1,500 bar; 0 – 2,000 bar; 0 – 4,000 bar, 0 – 5,000 bar

- Sample rate software selection up to 1,000 Hz
- Silicon-on-Sapphire pressure sensor technology
- Pressure ranges from vacuum to 5,000 bar
- Accuracy (NLHR)  $\pm 0.15\%$  of span BFSL
- Auto detect and configuration
- ESI-USB© downloadable software with auto update
- Measure & record up to 16 pressure inputs in one test
- Automatic temperature compensation



## General Purpose Pressure Transducer - GS4200

Standard pressure ranges:

0 – 1 bar Vac; 0 – 0.5 bar; 0 – 1 bar; 0-2.5 bar; 0-6 bar; 0 – 10 bar;  
0-16 bar; 0 – 25 bar; 0 – 100 bar; 0 – 250 bar; 0-400 bar; 0 – 600 bar;  
0-1,000 bar; 0 – 1,500 bar

- Silicon-on-Sapphire sensor technology
- Unblemished track record of reliability
- Excellent corrosion resistance
- High strength titanium pressure port
- High resistance to overpressure and pressure transients
- ATEX/IECEX option available
- DNV GL approved



## General Purpose Pressure Sensor with RS-485/ Modbus RTU Interface - GS4400/GS4500

Standard pressure ranges:

0 – 1 bar Vac; 0 – 0.5 bar; 0 – 1 bar; 0-2.5 bar; 0-6 bar; 0 – 10 bar; 0-16 bar; 0 – 25 bar;  
0 – 100 bar; 0 – 250 bar; 0-400 bar; 0 – 600 bar; 0-1,000 bar; 0 – 1,500 bar

- Excellent corrosion resistance
- High strength titanium pressure port
- High resistance to overpressure and pressure transients
- High accuracy option
- Communication up to 1200 meters
- Selectable baud rate
- Resistant to interference from noise
- Silicon-on-Sapphire sensor technology



## Hazardous Area Pressure Transducer - PR3900

Standard pressure ranges:

0 – 10 bar; 0 – 25 bar; 0 – 60 bar; 0 – 100 bar; 0 – 250 bar; 0 – 600 bar;  
0 – 1,000 bar; 0 – 1,500 bar (other options available)

- ATEX and IECEx certified
- NACE corrosion resistant materials
- Rugged, weatherproof design
- DNV GL Approved
- Applications include: Above ground explosive / hazardous environment installations, oil & gas industries, volatile chemical processing and storage, marine applications



## Subsea Control Valve Pressure Transducer - PR3913

Standard pressure ranges:

0 – 228 bar; 0 – 379 bar; 0 – 569 bar; 0 – 759 bar; 0 – 1,035 bar

- Submersion to a depth of 3,000 meters below sea level
- High accuracy option
- Environmental Stress Screening (ESS Testing)
- Suitable for ROV and deep sea test equipment
- ATEX/IECEx option available (includes M1 for mining applications)
- Silicon-on-Sapphire sensor technology for outstanding performance

## Subsea Pressure Transducer - PR3914

Standard pressure ranges: 0-10 bar to 0-2,000 bar

- Suitable for ROV and deep sea test equipment
- Silicon-on-Sapphire sensor technology for outstanding performance
- Submersion to a depth of 6,000 meters
- Optional temperature output
- ESS Testing and comprehensive document packages available



## Dual Redundant Subsea Pressure Transducer - PR3915

Standard pressure ranges:

0 – 569 bar; 0 – 759 bar; 0 – 1,035 bar; 0-1,380 bar (other options available)

- Two pressure sensors and electronics for reliable dual redundancy
- Silicon-on-Sapphire sensor technology for outstanding performance
- Submersion to a depth of 3,000 meters below sea level
- High accuracy option
- Hyperbaric testing to 3,300 meters depth
- Environmental Stress Screening (ESS Testing)

## Differential Subsea Pressure Transducer - PR3920

Standard pressure ranges: 0-750 psi (51 barDP)

- Standard sensing range 0-50 bar DP
- 690 bar line pressure
- 1,200 bar secondary containment
- Submersion to a depth of 3,000 meters below sea level
- NACE corrosion resistance
- ATEX/IECEX option available
- Hyperbaric & ESS Testing and document packages available
- Silicon-on-Sapphire sensor technology



## Subsea Pressure Transducer with RS-485 Interface or Modbus RTU - PR3930

Standard pressure ranges:

0 -100 bar; 0 – 250 bar; 0-400 bar; 0-600 bar; 0-1,000 bar; 0 – 1,500 bar

- Suitable for ROV and deep sea test equipment
- Submersion to a depth of 6,000 meters
- High accuracy option
- Hyperbaric testing and Environmental Stress Screening (ESS Testing)
- RS-485 communication up to 1200 m
- Selectable baud rate
- Resistant to noise interference

## High Precision Pressure Transducer - HI2000

Standard pressure ranges:

0-1 bar Vac; 0-1 bar; 0-10 bar; 0-25 bar; 0-100 bar; 0-250 bar; 0-400 bar;

0-600 bar; 0-1000 bar; 0-1500 bar

- High accuracy and performance
- Silicon-on-Sapphire sensor technology for outstanding performance
- Specialist titanium alloy sensor for excellent chemical compatibility
- High thermal stability over wide operating temperature
- ATEX/IECEX option available. TEDS Version available
- Applications: Subsea, oil and gas monitoring equipment (downhole)



# Oil, Gas and Subsea Pressure Sensors

## High Temperature Pressure Transducer - HI2200

Standard pressure ranges:

0 – 1 bar Vac; 0 – 1 bar; 0 – 10 bar; 0 – 25 bar; 0 – 100 bar; 0 – 250 bar;  
0 – 700 bar; 0 – 1,500 bar

- Operating and ambient temperatures to 392°C (200°C)
- High accuracy
- Temperature compensated option
- Good chemical compatibility
- A range of electrical and process connections available



## High Pressure Transducer - HP1000

Standard pressure ranges:

HP10xx: 0 - 600 bar; 0 - 700 bar; 0 - 1,000 bar; 0 - 1,500 bar; 0 - 2,000 bar  
HP11xx: 0 - 2,500 bar; 0 - 4,000 bar; 0 - 5,000 bar

- Machined from one piece of Titanium
- No seals or welds
- High resistance to overpressure and pressure transients
- Silicon-on-Sapphire (SOS) sensor technology
- ATEX/IECEx option available for 4-20 mA versions
- DNV GL approved

## High Pressure Sensor with RS-485 Interface - HP1400

- RS-485 communication up to 1200 m
- Pressure ranges to 5,000 bar
- Machined from one piece of Titanium
- No seals or welds for high pressure integrity
- High resistance to overpressure and pressure transients
- Silicon-on-Sapphire (SOS) sensor technology
- Selectable baud rate
- Resistant to interference from noise



## Submersible Depth & Level Pressure Transducer, PR3441

The PR3441 submersible transmitter is designed for accurate measurement of liquid depth and level in various applications. It features a standard 4-20 mA two-wire output signal with a supply range of 13-26 Vdc. Electrical connection is made through a high-strength polyurethane cable with an integrated tube, ensuring reliable and trouble-free venting to the surface atmosphere.

- Piezoresistive sensor technology for excellent stability and repeatability
- Pressure ranges available for 0-1 mWG
- High Strength, cable for protection against ingress
- 316L stainless steel construction
- 4-20 mA two-wire output
- Integral transient voltage protection
- High strength moulded polyurethane



## Sludge Platform Submersible Level Transducer PR3420

The PR3420 submersible transducer delivers accurate measurements in sediment-laden environments, with a sludge platform that keeps the sensing element above the sediment. It features a 4-20 mA output and a durable cable for reliable, trouble-free operation in challenging conditions.

- Submersible Depth & Level Pressure Transmitter with Sludge Platform
- Resistant to high voltage spikes
- Piezoresistive sensor technology for excellent stability and repeatability
- Sludge Platform to raise sensor above sediment level
- Pressure ranges available from 0-1 mWG
- Reliable stainless steel construction
- ATEX/IECEx option available



## Applications:

### Oil and Gas Industry Applications:

- Used in monitoring the level of liquids in oil tanks, or offshore platforms
- Monitoring the depth of water or other liquids in drilling operations.

### Marine and Offshore Applications:

- Measurement of water depth for marine navigation, offshore platforms, or submerged equipment

# SUCO ESI North America

THE WORLDWIDE SPECIALIST FOR CUSTOMIZED PRESSURE SWITCHES & TRANSDUCERS



SUCO products are known for their precision and reliability in the oil, gas, subsea, and petrochemical industries. Featuring Silicon-on-Sapphire technology, titanium diaphragms, and ATEX/IECEX certification, our pressure sensors excel in harsh environments. We also provide detailed documentation for seamless integration and operational confidence.

Contact us today to experience our unmatched quality and service!



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