



# HYDROGEN PRESSURE SOLUTIONS



Our pressure transducers, transmitters, and switches reliably monitor and control the pressure of liquid and gaseous hydrogen in various industrial applications. These include climate-neutral energy generation and storage (such as in fuel cells and tanks), hydrogen transportation in ships, trains, and other vehicles, refuelling at H2 filling stations, heat generation and supply, the HVAC industry, and many more...

High pressure ranges up to 5,000 bar, explosion protection according to ATEX, hydrogen compatible sensors made of titanium and housings made of 316L stainless steel are some innovations that have been incorporated in to our comprehensive product range.



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## PRESSURE TRANSDUCERS & TRANSMITTERS

ESI Technology Ltd's hydrogen-compatible pressure transducers and transmitters have passed the Hydrogen Compatibility test according to ISO 11114-2:2017, complying with European regulations EC 79/2009 and EU 406/2010.

Built with titanium sensing elements and Silicon-on-Sapphire sensors, they deliver outstanding long-term stability and precision. The hydrogen range supports measurements from vacuum to 5,000 bar, with options for ATEX/IECEX, marine approval, and both digital and analog configurations.

### GD4200HUSB



Ranges from -1 to 5,000 bar.  
<2x overpressure safety.  
Titanium alloy, SOS sensor.  
ESI-USB® software with  
1.000Hz sampling rate.  
High accuracy ±0.15% BFSL.



### GS4200H



Ranges from -1 to 1,500 bar.  
<4x overpressure safety.  
Titanium alloy, SOS sensor.  
Optional certificate acc. to  
ATEX/IECEX & DNV GL.  
Excellent corrosion resistance.



### HI2000H



Ranges from -1 to 1,500 bar.  
<4x overpressure safety.  
Titanium alloy, SOS sensor.  
Optional certificate acc. to  
ATEX/IECEX.  
High accuracy and precision  
±0.1% BFSL.



### HI6200H



Ranges from -1 to 5,000 bar.  
<4x overpressure safety.  
Titanium alloy, SOS sensor.  
Excellent corrosion resistance.  
Compact design with  
Metri-pack 150 connector.



### HP1000H



Ranges from -1 to 5,000 bar.  
<1.5x overpressure safety.  
Titanium alloy, SOS sensor.  
Optional certificate acc. to  
ATEX/IECEX & DNV GL.  
High resistance to pressure peaks.



### OH44/OH45



Changeover (CO).  
Ranges from 0.3 bar to 150 bar.  
<300/600 bar overpressure  
safety.  
EDPM diaphragm.  
SAE 316L SS housing.  
ATEX/IECEX (M1) certification.



### OH64/OH69



Normally Closed (NC).  
Normally Opened (NO).  
Ranges from 0.1 bar to 150 bar.  
<600 bar overpressure safety.  
EDPM diaphragm.  
SAE 316L SS housing.  
cCSAus certification (pending).



### OH83



Changeover (CO).  
Ranges from 100 bar to 400 bar.  
<600 bar overpressure safety.  
EDPM diaphragm.  
SAE 316L SS housing.  
cCSAus certification (pending).



### OH86/OH87



Changeover (CO).  
Ranges from 0.5 bar to 200 bar.  
<700 bar overpressure safety.  
EDPM diaphragm.  
SAE 316L SS housing.  
cCSAus certification (pending).



## PRESSURE SWITCHES

SUCO has a long-standing tradition in manufacturing mechanical pressure switches for hydrogen applications. These switches are ideal for situations where reliable, robust, and cost-effective pressure monitoring is essential.

SUCO's modular pressure switch system offers a vast array of variants, tailored to meet diverse needs. With optional ATEX/IECEX certification, IP6K9K protection, high overpressure safety, and an exceptionally durable design, these switches ensure a long service life and reliable monitoring of critical pressure limits.

**SUCO**  
suco.de