

SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

070510141B001
 0.5-4.5V, 0..10 bar, G1/4-E, DIN

- Measuring range up to 600 bar
- Silicon-on-sapphire sensor
- Outstanding overpressure protection
- Outstanding repeatability



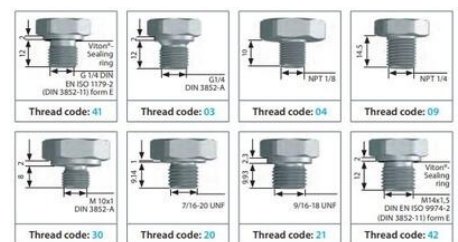
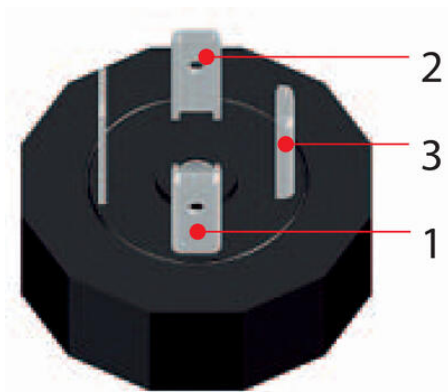
PRODUCT DESCRIPTION

The SUCO 0705/0710/0720 series are precision pressure sensors built with silicon-on-sapphire (SOS) sensing elements housed in a fully welded stainless steel and titanium body, delivering exceptional durability and media compatibility. They support ten standard gauge pressure ranges and multiple output types, offering flexibility across various systems. Featuring rapid response times, repeatability of $\pm 0.1\%$ full scale, accuracy around $\pm 0.5\%$, and shock/vibration resistance (500 m/s², 20 g), these sensors ensure reliable performance in demanding environments. Overpressure protection is robust making them safe for high-pressure applications. IP67 (and IP6K9K for certain connectors) rating ensures resilience against water ingress and contaminants. Designed for rigorous industrial and mobile environments, these sensors are ideal for integration in hydraulic systems, construction and agricultural machinery, marine/offshore platforms, and other high-pressure systems. The variety of electrical connectors, alongside G1/4 or multiple thread patterns (NPT, M14, UNF), ensures compatibility with diverse installations. They excel in real-time monitoring scenarios, such as pump control, leak detection, safety shutdowns, where high accuracy, fast response, and overpressure safety are essential. With long-term stability and temperature compensation from $-40\text{ }^{\circ}\text{C}$ to $+100\text{ }^{\circ}\text{C}$ (media to $+125\text{ }^{\circ}\text{C}$), these units minimise downtime and maintenance for uses in heavy-duty and offshore sectors.

TECHNICAL DATA

Accuracy	$\pm 0.5\%$ FS
Burst pressure	80 bar
Connection	G1/4-E
Electrical connection	DIN EN 175301-803-A
IP class	IP67

Long term stability	±0.1% FS p.a.
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium
Overpressure protection	40 bar
Pressure range max	10 bar
Pressure range min	0 bar
Pressure reference	Gauge
Pressure rise	5 bar/ms
Repeatability	±0.1% FS
Response time	2 ms
Shock resistance	500 m / s ² ; 11 ms half sine wave; DIN EN 60068-2-27
Signal type	0.5-4.5 V ratiometric
Supply voltage dc max	6.5 V DC
Supply voltage dc min	5 V DC
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Temperature error	±0.01% FS/°C
Temperature of media from	-40 °C
Temperature of media to	125 °C
Weight	80 g
Vibration resistance	20g: 4..2000 Hz sine wave, DIN EN 60068-2-6





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