

SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

071016141B001
0-10V, 0..16 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 high performance series pressure sensor is an advanced pressure monitoring solution with unrivalled attributes. Offering ten standard pressure ranges with options of six different electrical connectors a thread of G1/4 (eight available in total) and 0.5-4.5 V ratiometric, 0-10V or 4-20mA outputs. The 07 series uses silicon-on-sapphire technology in a titanium all welded design offering outstanding overpressure protection, media compatibility and the highest repeatability.

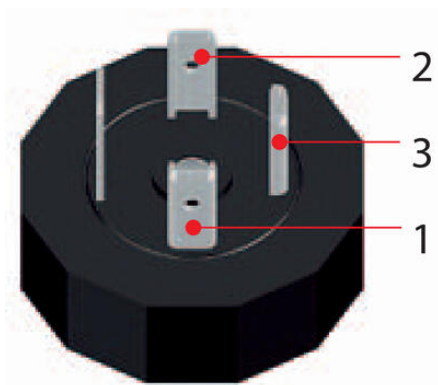
Common applications include mobile hydraulics, off-shore/marine, high pressure systems and more.

TECHNICAL DATA

Accuracy

±0.5% FS

| | |
|----------------------------------|---|
| Burst pressure | 128 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 | 64 bar |
| Pressure range max | 16 bar |
| Pressure range min | 0 bar |
| Pressure reference | Gauge |
| Pressure rise | 5 bar/ms |
| Repeatability | ±0.1% FS |
| Response time | 2 ms |
| Shock resistance | 500m / s ² ; 11 ms half sine wave; DIN EN 60068-2-27 |
| Signal type | 0-10 V |
| Supply voltage dc max | 32 V DC |
| Supply voltage dc min | 12 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 |





| | | | |
|--|---|------------------------------------|--|
| Viton® Sealing ring G 1/4 DIN EN ISO 1179-2 (DIN 3852-11) form E Thread code: 41 | G1/4 DIN 3852-A Thread code: 03 | NPT 1/8 Thread code: 04 | NPT 1/4 Thread code: 09 |
| M 10x1 DIN 3852-A Thread code: 30 | 7/16-20 UNF Thread code: 20 | 9/16-18 UNF Thread code: 21 | Viton® Sealing ring M14x1.5 DIN EN ISO 9974-2 (DIN 3852-11) form E Thread code: 42 |



| | | | |
|--|---|------------------------------------|--|
| Viton® Sealing ring G 1/4 DIN EN ISO 1179-2 (DIN 3852-11) form E Thread code: 41 | G1/4 DIN 3852-A Thread code: 03 | NPT 1/8 Thread code: 04 | NPT 1/4 Thread code: 09 |
| M 10x1 DIN 3852-A Thread code: 30 | 7/16-20 UNF Thread code: 20 | 9/16-18 UNF Thread code: 21 | Viton® Sealing ring M14x1.5 DIN EN ISO 9974-2 (DIN 3852-11) form E Thread code: 42 |