

## SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

070540141B011  
0.5-4.5V, 0..40 bar, G1/4-E, 2M cable

- 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 | 320 bar  |

|                                  |   |
|----------------------------------|---|
|                                  |   |
| <b>Connection</b>                | G1/4-E  |
| <b>Electrical connection</b>     | Embedded 2m cable   |
| <b>IP class</b>                  | IP67  |
| <b>Long term stability</b>       | ±0.1% FS p.a.   |
| <b>Material of body</b>          | Stainless steel 1.4305  |
| <b>Material of wetted parts</b>  | Stainless steel 1.4305, Titanium                                |
| <b>Overpressure protection</b>   | 160 bar   |
| <b>Pressure range max</b>        | 40 bar  |
| <b>Pressure range min</b>        | 0 bar   |
| <b>Pressure reference</b>        | Gauge   |
| <b>Pressure rise</b>             | 5 bar/ms  |
| <b>Repeatability</b>             | ±0.1% FS  |
| <b>Response time</b>             | 2 ms  |
| <b>Shock resistance</b>          | 500m / s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27 |
| <b>Signal type</b>               | 0.5-4.5 V ratiometric   |
| <b>Supply voltage dc max</b>     | 6.5 V DC  |
| <b>Supply voltage dc min</b>     | 5 V DC  |
| <b>Temperature ambient from</b>  | -40 °C  |
| <b>Temperature ambient to</b>    | 100 °C  |
| <b>Temperature error</b>         | ±0.01% FS/°C  |
| <b>Temperature of media from</b> | -40 °C  |
| <b>Temperature of media to</b>   | 125 °C  |
| <b>Weight</b>                    | 80 g  |
| <b>Vibration resistance</b>      | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6                     |

