

OEM Automatic Ltd Address: Whiteacres, Whetstone Leicester, LE8 6ZG 0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

070510141B011 0.5-4.5V, 0..10 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 ratiomateric, 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

Burst pressure

±0.5% FS

80 bar

ConnectionG14-EElectrical connectionEndeddat CaclelaIr classIP67Long term stabilityG10/k FS p.a.Material of bodyStainess steal 1.4305, TitaniumMaterial of wetted partsStainess steal 1.4305, TitaniumOverpressure protection40 barPressure range max10 barPressure range max0 barPressure referenceStain/s Stainess steal 1.4305, TitaniumRepeatability0.30 kRepeatability0.30 kStaines steal new scienceStainess steal new scienceStapp voltage de max0.51 kStapp voltage de maxStaines steal new scienceTemperature ambient from0.51 kTemperature ambient from0.10% RSCTemperature andient form0.01% RSC<		
P classP67Iong term stability9.0% FS p.a.Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpresure protection40 barPresure range man0.0 barPresure referenceGaugoPresure reference5.0 km/SRepetability0.0% FSReponse time5.0 km/SSignal type6.5 LpCSignal type6.5 LpCSupply voltage de man5.0 km/STemperature ambient foro6.0 km/STemperature ambient foro0.0% FS/CTemperature andem foro0.0% FS/CTemperature of media foro0.0% FS/CTempe	Connection	G1/4-E
Long term stability±0.1% FS p.a.Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpressure protection40 barPressure range max10 barPressure range max0 barPressure range min0 barPressure referenceGaugeResponse time2 msStock resistance500m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type500m / s², 11 ms half sine wave; DIN EN 60068-2-27Supply voltage dc max5 V DCSupply voltage dc max5 V DCTemperature ambient from100 °CTemperature of media from40 °CTemperature of media from40 °CTemperature of media from80 g	Electrical connection	Embedded 2m cable
Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpressure protection40 barPressure range max10 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability2 msShock resistance050m / s*; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54 S VariometricSupply voltage dc max6.54 VDCTemperature ambient from100 °CTemperature ambient from100 °CTemperature of media from40 °CTemperature of media from40 °CYeight0.54 °CStore of media from6.50 °CStore of media from100 °CStore of media from100 °CStore of media from6.50 °CStore of media from8.50 °C <td< th=""><th>IP class</th><th>IP67</th></td<>	IP class	IP67
Material of wetted partsStainless steel 1.4305, TitaniumMaterial of wetted partsStainless steel 1.4305, TitaniumOverpressure protection40 barPressure range max10 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability20 barReponse time20 msStock resistance500m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54.5 V ratiometricSupply voltage dc max6.5 V DCTemperature ambient from4.0°CTemperature ambient from4.0°CTemperature of media from4.0°CTemperature of media from4.0°CWeight0.09	Long term stability	±0.1% FS p.a.
Overpressure protection40 barPressure range max10 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability40.1% FSResponse time000m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type054-5 V ratiometricSupply voltage dc max5 \ VDCTemperature ambient from40.1% FS°Temperature ambient from100 °CTemperature of media from40.1% FS°CKeiperature of media from80.9%Weight80.9%	Material of body	Stainless steel 1.4305
Pressure range max10 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability0.1% FSResponse time2 msShock resistance500m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type0.5-4.5 V ratiometricSupply voltage de max6.5 V DCTemperature ambient from4.0°CTemperature ambient form0.01% FS°CTemperature of media from4.0°CTemperature of media from8.0 gWeight8.0 g	Material of wetted parts	Stainless steel 1.4305, Titanium
Pressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability10.% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.5-4.5 V ratiometricSupply voltage dc max6.5 V DCTemperature ambient from40 °CTemperature ambient from0.01% FS/°CTemperature of media from215 °CWeight80 g	Overpressure protection	40 bar
Pressure referenceGaugePressure riseGaugePressure riseSba//msRepeatability0.1% FSResponse time2 nsShock resistanceSolm / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54.5 V ratiometricSupply voltage dc max6.5 V DCTemperature ambient from4.0 °CTemperature ambient from0.01% FS°CTemperature of media from4.0 °CTemperature of media to2.5 °CWeight0.9 °CStepset from0.01% FS°CTemperature of media to0.0 °CStepset from0.0 °CStepset from0.01% FS°CComperature of media to0.00 °CStepset from0.00 °CSteps	Pressure range max	10 bar
Pressure rise5 bar/msRepeatability±0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.5-4.5 V ratiometricSupply voltage dc max6.5 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature of media from-40 °CTemperature of media to25 °CWeight0.80 g	Pressure range min	0 bar
Repeatability±0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.5-4.5 V ratiometricSupply voltage dc max6.5 V DCSupply voltage dc min5 V DCTemperature ambient from40 °CTemperature ambient fom100 °CTemperature ambient to100 °CTemperature of media from25 °CTemperature of media from20 °CWeight80 g	Pressure reference	Gauge
Response time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54.5 V ratiometricSupply voltage dc max6.5 V DCSupply voltage dc min5 V DCTemperature ambient from4.0 °CTemperature ambient form9.01% FS/°CTemperature of media from4.0 °CTemperature of media from1.5 °CTemperature of media from9.01% FS/°CTemperature of media from9.01% SCTemperature of media from9.01% SC	Pressure rise	5 bar/ms
Shock resistance50m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54.5 V ratiometricSupply voltage dc max6.5 V DCSupply voltage dc min5 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature error4.0 °CTemperature of media from-40 °C </th <th>Repeatability</th> <th>±0.1% FS</th>	Repeatability	±0.1% FS
Signal type0.5-4.5 V ratiometricSupply voltage dc max6.5 V DCSupply voltage dc min5 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature error±0.01% FS/°CTemperature of media from25 °CTemperature of media to25 °CWeight80 g	Response time	2 ms
Supply voltage dc max6.5 V DCSupply voltage dc min5 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature error±0.01% FS/°CTemperature of media from-40 °CTemperature of media to125 °CWeight80 g	Shock resistance	500m / s ² ; 11 ms half sine wave; DIN EN 60068-2-27
Supply voltage dc minSV DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature error±0.01% FS/°CTemperature of media from-40 °CTemperature of media to125 °CWeight80 g	Signal type	0.5-4.5 V ratiometric
Temperature ambient from-40 °CTemperature ambient to100 °CTemperature error±0.01% FS/°CTemperature of media from-40 °CTemperature of media to125 °CWeight80 g	Supply voltage dc max	6.5 V DC
Temperature ambient to100 °CTemperature error±0.01% FS/°CTemperature of media from-40 °CTemperature of media to125 °CWeight80 g	Supply voltage dc min	5 V DC
Temperature error±0.01% FS/°CTemperature of media from-40 °CTemperature of media to125 °CWeight80 g	Temperature ambient from	-40 °C
Temperature of media from-40 °CTemperature of media to125 °CWeight80 g	Temperature ambient to	100 °C
Temperature of media to 125 °C Weight 80 g	Temperature error	±0.01% FS/°C
Weight 80 g	Temperature of media from	-40 °C
	Temperature of media to	125 °C
Vibration resistance20g: 42000 Hz sine wave, DIN EN 60068-2-6	Weight	80 g
	Vibration resistance	20g: 42000 Hz sine wave, DIN EN 60068-2-6







