

SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

070525141B007 0.5-4.5V, 0..25 bar, G1/4-E, AMP Superseal 1.5®

- 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

200 bar

ConnectionGi44EElectrical connectionAMP SupersealIP classIP67Long term stabilityStalkers Stall A305Material of bodyStalkers stall A305, TitaniumMaterial of wetted partsStalkers stall A305, TitaniumPressure protectionIO barPressure range minStalkers stall A305, TitaniumPressure range minStalkersRepeatabilityStalkersReports riseStalkersStaphy voltage de maxStalkersStaphy voltage de maxStalkersStaphy voltage de maxStalkersTemperature ambient fromStalkersTemperature ambient fromStalkersTemperature andient fromStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkersStankersStalkers		
P classIP67I ong term stability0.1% FS p.a.Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpresure protection100 barPresure range man0 barPresure referenceGaugePresure reference5 bar/msRepeatability0.1% FSReponse time0.0m / % 11 ms half sine wave; DIN EN 00068-2:27Signal type0.54 SV TatiometricSupply voltage de man5.54 SV TatiometricTemperature ambient from0.0% CTemperature arton0.0% CTemperature of media from0.0% CSupply voltage de man0.0% CSupply coltage de man0.0% CSupply voltage de man0.0% CSu	Connection	G1/4-E
NumberAutomationLong term stability±0.1% FS p.a.Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpressure protection100 barPressure range max0 barPressure range maxO barPressure range maxGaugePressure referenceGaugeRepeatability2 bar/msResponse time2 msStock resistance50m / s ² , 11 ms half sine wave; DIN EN 60068-2-27Signal type5.54 / VatiometricSupply voltage dc max6.5 V DCTemperature ambient from100 °CTemperature of media from40 °CTemperature of media from40 °CTemperature of media from25 °CWeight80 g	Electrical connection	AMP Superseal
Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpressure protection100 barPressure range max25 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability20 bm / s SShock resistance00 bm / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54 S VariometricSupply voltage de max6.54 VariometricSupply voltage de max0.01% FSTemperature ambient from100 °CTemperature ambient from0.01% FS/°CTemperature of media from40 °CTemperature of media from40 °CWeight8.50 °CSupply voltage de max8.01% FS/°CSupple Street from100 °CSupple Street from9.01% FS/°CSupple Street from9.01% FS/°CStreet from4.01% FS/°CStreet from9.01%	IP class	IP67
Material of wetted partsStainless steel 1.4305, TitaniumMaterial of wetted partsStainless steel 1.4305, TitaniumOverpressure protection100 barPressure range max0 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability2 msResponse time2 msSignal type054-5V ratiometricSupply voltage dc max6.5V DCRemperature ambient from40°CTemperature ambient from100 °CTemperature of media from40°CTemperature of media from40°CYeight80 g	Long term stability	±0.1% FS p.a.
Overpressure protection100 barPressure range max25 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability40.1% FSResponse time500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type054-5 V ratiometricSupply voltage dc max5 V DCTemperature ambient from40.1% FS°Temperature ambient from40.0% CTemperature of media from40.0% CTemperature of media from80.0% S°Weight80.9%	Material of body	Stainless steel 1.4305
Pressure range max25 barPressure range max0 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability40.1% FSReponse time2 msShock resistance500m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54.5 V ratiometricSupply voltage de max6.5 V DCTemperature ambient from40°CTemperature ambient form40.0°CTemperature of media from40.0°CTemperature of media from80.9	Material of wetted parts	Stainless steel 1.4305, Titanium
Pressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability±0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.54.5 V ratiometricSupply voltage dc max5 V DCTemperature ambient from40°CTemperature ambient from0.01% FS/°CTemperature of media from215°CWeight80 g	Overpressure protection	100 bar
Pressure referenceGaugePressure riseGaugnRepeatabilityJba/msRepeatability0.1% FSResponse time2 msShock resistanceSolom / 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 °CWeight8.0 g	Pressure range max	25 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 DCSupply voltage dc min-40 °CTemperature ambient from400 °CTemperature ambient to400 °CTemperature of media from-40 °CTemperature of media to-40 °CWeight-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 for100 °CTemperature ambient to100 °CTemperature of media from4.0 °CTemperature of media from4.0 °CTemperature of media to9.0 °CWeight8.0 g	Pressure reference	Gauge
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Shock 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 from-40 °CTemperature ambient to100 °CTemperature error-40.0°CTemperature of media from-40.°CTemperature of media from-40.°C	Repeatability	±0.1% FS
Signal type0.54.5 VratiometricSupply 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 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 / s²; 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







