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SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

072060141B007 4-20mA, 0..60 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

480 bar

ConnectionG1/4-EElectrical connectionAMP SupersealIP classIP67Long term stabilityG1/8/FS p.a.Material of bodyStainless steal 1.4305, TitaniumMaterial of wetted partsStainless steal 1.4305, TitaniumOverpressure protectionG1/8Pressure range maxG1/8Pressure range maxG1/8		
PreasePF7Long term stability90.7% FS p.a.Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpressure protection40 barPressure range man0 barPressure referenceGaugeRepeatability0.1% FSRepeatability0.1% FSStarlings steel number of the state of the	Connection	G1/4-E
InterfactArrLong term stability±0.1% FS p.a.Material of bodyStainless steel 1.4305Material of wetted partsStainless steel 1.4305, TitaniumOverpressure protection240 barPressure range max60 barPressure range maxO barPressure range maxO barPressure referenceGaugePressure rise5 bar/msRepeatability±0.1% FSResponse time2 msSignal type500m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type32 V DCSupply voltage dc max32 V DCTemperature ambient from100 °CTemperature ambient to100 °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 protection240 barPressure range max60 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability2 msShock resistance20m / still ms half sine wave; DIN EN 60068-2-27Signal type4.20 mASupply voltage dc max32 V DCTemperature ambient from10 v DCTemperature ambient from30 m / still ms half sine wave; DIN EN 60068-2.27Temperature ambient from0.01% FS/°CTemperature of media from40 °CTemperature of media from40 °CTemperature of media from40 °CWeight80 g	IP class	IP67
Material of wetted partsStainless steel 1.4305, TitaniumPressure protection240 barPressure range max60 barPressure range max0 barPressure range max60 augePressure range max50 bar/msPressure range max50 bar/msRepeatability2.01% FSReponse time20m / s², 11 ms half sine wave; DIN EN 60066-2-27Signal type4.20 mASupply voltage dc max32 V DCReperature ambient from4.00 °CTemperature ambient from100 °CTemperature of media from4.00 °CTemperature of media from4.00 °CTemperature of media from4.00 °CStrept voltage dc max3.00 °CTemperature of media from4.00 °CTemperature of media from4.00 °CYeight3.00 °CStrept voltage dc max3.00 °CStrept voltag	Long term stability	±0.1% FS p.a.
Overpressure protection240 barPressure range max60 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability4.01% FSResponse time000m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type4.20 mASupply voltage dc max32 V DCTemperature ambient from100 °CTemperature ambient from4.01% FS°CTemperature of media from2.01% FS°CKeight8.09	Material of body	Stainless steel 1.4305
Pressure range max60 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type4-20 mASupply voltage dc max0 UV DCTemperature ambient from4-0°CTemperature ambient form4-0°CTemperature error4-0°CTemperature of media from4-0°CTemperature of media from8-00% FS°CWeight80 g	Material of wetted parts	Stainless steel 1.4305, Titanium
Pressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability10 % FSResponse time2 msShock resistance300m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type4-20 mASupply voltage dc max32 V DCSupply voltage dc max00 % CTemperature ambient from40 °CTemperature error001% FS/°CTemperature of media from25 °CWeight80 g	Overpressure protection	240 bar
Pressure referenceGaugePressure riseGaugePressure riseSba//msRepeatabilityd.1% FSResponse time2 msShock resistanceSolm / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type4-20 mASupply voltage dc max01 V DCTemperature ambient from4-0 °CTemperature ambient form0.01% FS°CTemperature of media foom20 °CTemperature of media to20 °CWeight80 g	Pressure range max	60 bar
Pressure rise5 bar/msRepeatability±0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type4-20 mASupply voltage dc max32 V DCSupply voltage dc min10 V DCTemperature ambient from4-00 °CTemperature ambient to100 °CTemperature of media from4-00 °CTemperature of media to80 g	Pressure range min	0 bar
Repeatability±0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type4-20 mASupply voltage dc max32 V DCSupply voltage dc min10 V DCTemperature ambient from-40 °CTemperature ambient fom10.01% FS/°CTemperature of media from125 °CWeight80 g	Pressure reference	Gauge
Response time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type4-20 mASupply voltage dc max32 V DCSupply voltage dc min10 V DCTemperature ambient from4-0 °CTemperature ambient form100 °CTemperature of media from4-0 °CTemperature of media from4-0 °CTemperature of media from500 °CTemperature of media from6-0 °CTemperature of media from15 °CTemperature of media from8-0 °GTemperature of media from8-0 °GT	Pressure rise	5 bar/ms
Shock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type4-20 mASupply voltage dc max32 V DCSupply voltage dc min10 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature of media from-40 °CTemperature of media from-40 °CTemperature of media to-40 °CWeight80 g	Repeatability	±0.1% FS
Signal type4-20 mASupply voltage dc max32 V DCSupply voltage dc min10 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature error±0.01% FS/°CTemperature of media from-40 °CTemperature of media to125 °CWeight80 g	Response time	2 ms
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Supply voltage dc minI0 V DCTemperature ambient from-40 °CTemperature ambient toI00 °CTemperature error±0.01% FS/°CTemperature of media from-40 °CTemperature of media toI25 °CWeight80 g	Signal type	4-20 mA
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	32 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	10 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







