

SUCO - 0705/0710/0720 PRESSURE SENSOR

High performance series

071016141B007 0-10V, 0..16 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

128 bar

connectionG1/4-EElectrical connectionAMP SupersealIP classIP67Long term stability61/9/FS p.a.Material of bodyStainless steal 1.4305, TitaniumMaterial of wetted partsStainless steal 1.4305, TitaniumOverpressure protection64 barPressure range max16 barPressure referenceGaugaPressure reference5bar/msRepeatability20% PSReports tripe20% PSStock resistance20% PSStophy voltage de max20% PSStophy voltage de max40 °CTemperature ambient from40 °CTemperature ambient from40 °CTemperature efference600% PS °CStophy voltage de max600 °CStophy voltage de max600 °CStophy voltage de max600 °CTemperature ambient from40 °CTemperature efference600 °CStophy voltage de max600 °CStophy voltage d		
Presure Pref Long term stability 9.0% 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 max 0 bar Pressure reference Gauge Repeatability 0.1% FS Repeatability 0.1% FS Stappose time 0.1% FS Stappose time 0.1% FS Stapply voltage dc max 0.1% FS Temperature ambient form 10.1% CS Temperature of media from 10.1% CS Temperature of media from 0.01% FS/°C Temperature of media from 0.2% CC Te	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 protection64 barPressure range max16 barPressure range maxO barPressure referenceGaugePressure rise5 bar/msRepetability2 msStock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type010 VSupply voltage de max2 V DCTemperature ambient from100 °CTemperature emotin100 °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 protection64 barPressure range max16 barPressure range min0 barPressure referenceGaugePressure reference5 bar/msRepeatability±0.1% FSReponse time2 msStock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0.10 VSupply voltage dc max20 V DCTemperature ambient from10 v°CTemperature ambient from40.0% FS/°CTemperature of media from40.0% CWeight80.9%	IP class	IP67
Material of wetted partsStainless steel 1.4305, TitaniumOverpressure protection64 barPressure range max16 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability±0.1% FSResponse time2 msSignal type010 VSupply voltage dc max32 V DCTemperature ambient from40 °CTemperature ambient from0.01% FS/°CTemperature of media from0.01% FS/°C <t< th=""><th>Long term stability</th><th>±0.1% FS p.a.</th></t<>	Long term stability	±0.1% FS p.a.
Overpressure protection64 barPressure range max16 barPressure range min0 barPressure range min0 barPressure referenceGaugePressure rise5 bar/msRepeatability40.1% FSResponse time000m / s², 11 ms half sine wave; DIN EN 60068-2-27Signal type000m / s², 11 ms half sine wave; DIN EN 60068-2-27Supply voltage dc max32 V DCSupply voltage dc max12 V DCTemperature ambient from100 °CTemperature error40.0% FS/°CTemperature of media from12 S° °CWeight80 g	Material of body	Stainless steel 1.4305
Pressure range max16 barPressure range min0 barPressure referenceGaugePressure reference5 bar/msRepeatability±0.1% FSResponse time2 msShock resistance500m / s², 11 ms half sine wave; DIN EN 60068-2:27Signal type0-10 VSupply voltage dc max2 V DCSupply voltage dc min12 V DCTemperature ambient from40°CTemperature ambient form40.0% FS/°CTemperature of media from40.0% FS/°CTemperature of media from80 g	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 type0-10 VSupply voltage dc max22 VDCTemperature ambient from40 °CTemperature error40.0% FS/°CTemperature of media from21 S°CKeynt80 g	Overpressure protection	64 bar
Pressure referenceGaugePressure riseGaugePressure riseSba//msRepeatability0.1% FSResponse time2 msShock resistanceSolm / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0-10 VSupply voltage dc max2 V DCTemperature ambient from40 °CTemperature ambient to0.01% FS°CTemperature of media foom40 °CTemperature of media to20 °CWeight30 °CTemperature of media to30 °CTemperature of media to30 °CWeight30 °CTemperature of media to30 °CSupply voltage to function30 °CTemperature of media to30 °CSupply voltage to function30 °	Pressure range max	16 bar
Pressure rise5 bar/msRepeatability±0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0-10 VSupply voltage dc max32 V DCSupply voltage dc min12 V DCTemperature ambient from40 °CTemperature ambient to100 °CTemperature of media from40 °CTemperature of media to20 °CWeight0.90 °CSupply voltage dc media to40 °CTemperature of media to40 °CSupply voltage dc media to40 °C <th>Pressure range min</th> <th>0 bar</th>	Pressure range min	0 bar
Repeatability±0.1% FSResponse time2 msShock resistance500m / s²; 11 ms half sine wave; DIN EN 60068-2-27Signal type0-10 VSupply voltage dc max32 V DCSupply voltage dc min12 V DCTemperature ambient from-40 °CTemperature ambient from±0.11% 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 type0-10 VSupply voltage dc max32 V DCSupply voltage dc min12 V DCTemperature ambient from-40 °CTemperature ambient form100 °CTemperature of media from-40 °CT	Pressure rise	5 bar/ms
Shock resistance500m / s ² ; 11 ms half sine wave; DIN EN 60068-2-27Signal type0-10 VSupply voltage dc max32 V DCSupply voltage dc min12 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature of media from-40 °CTemperature of media from-40 °CWeight80 g	Repeatability	±0.1% FS
Signal type0-10 VSupply voltage dc max32 V DCSupply voltage dc min12 V DCTemperature ambient from-40 °CTemperature ambient to100 °CTemperature error±0.01% FS/°CTemperature of media from22 °CWeight80 g	Response time	2 ms
Supply voltage dc max32 V DCSupply voltage dc min12 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 min12 V 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	0-10 V
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	12 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







