

S U B S E A

By Scan-Sense

PS-2052 SCM Pressure Transmitters

- *High pressure applications 0-20...1200 bar (SG)*
- *High accuracy 0,25% FS (-20°C to +80°C)*
- *Custom specified pressure range & pressure ports*
- *Signal output 4-20mA*
- *Designed for 30 years lifetime*
- *Fast response time (2 ms)*
- *Inconel 625 in housing*
- *Hastelloy C22 in wetted parts*
- *Extensively qualified acc. ISO 13628-6:2005*
- *Extensively ESS tested in FAT-procedure*



Applications

- Pressure measurement in **Sub sea Control Modules**
- Hydraulic control valves
- High pressure sub sea pumps
- Seawater submerged applications
- All types of sub sea Pod's

Description

The PS-2052 series of pressure transmitters represents the ultimate solution for high accuracy and long-term performance in sub sea environments. The thin-film strain gauge measuring technology is superior for dynamic and static measurements in the high- pressure ranges. All wetted parts are in Hastelloy C22 ensuring an excellent resistance against corrosion compared to ordinary stainless steel sensing elements with piezoresistive technology.

The PS-2052 sensor range is based on the valuable experience from sub-sea wellhead installations and submersible transponders used in seawater depth and offshore navigation equipment.

Qualification & Manufacturing

The PS-2052 is qualified according to guidelines in ISO 13628-6:2005, and in close co-operation with SCM vendors worldwide. Extensive pressure cycling tests & temperature cycling tests has proven this sensor to be THE FIRST CHOICE for sub sea control module vendors, and oil companies.

PS-2052 pressure transmitters are manufactured, calibrated, and extensively ESS-tested at Scan-Sense AS facility in NORWAY. Scan-Sense AS can offer a high service level to our customers, and close co-operation to customers technical department.

Highly skilled personnel manufacture all products, and Scan-Sense AS quality system is according to ISO9001: 2000.

ISO 9001 Certified



Certificate no. 900782



Description	Specifications	Unit	Comments
Hydraulic			
Working pressure range (WP)	0-20.....1200	bar	
Design Pressure (DP)	WP*1.1	bar	
Test pressure (TP)	DP*1.5	bar	ESS tested in FAT
Overpressure (OP)	WP*1,65	bar	
Ambient pressure (AP)	440	bar	ESS tested in FAT
Total accuracy	< ± 0,25	%FS	Verified at: -10°C, 25°C, 60°C
Long term drift	< ± 0,1	%FS/year	
Design life	30	years	
Mechanical			
Electronic chamber barrier to hyd.fluid.	Diaphragm Hastelloy C22		
Electronic chamber barrier to ambient	Glass/metal seal penetrator		
Sealing against seawater	Epoxy (araldite M) Boot seal (HNBR- hydrated Nitril)		
Wiring	Rachem spec.44 22awg		+ white / - black
Wiring outlet	Top of sensor		
Max length	70	mm	Exclusive threads to wire/boot bend.
Max diameter	27	mm	
Mechanical interface	Custom specified		
Housing material	Inconel 625		
Material wetted parts	Hastelloy C22		
Housing containment pressure	880	bar	
Housing burst pressure	1250	bar	
Wire pull strength:			
Straight pull	1,5	Kg	
Side pull	1,0	Kg	
Pending	0,5	Kg	

Electrical			
Supply voltage	10-30	VDC	
Signal output	4 -20	mA	
Polarity protection	Yes		FAT test
Transient protection	Yes		
Insulation test	1 G ohm at 50VDC		FAT test

Description	Specifications	Unit	Comments
Environmental			
Operating temperature range	-10 to + 50	°C	
Test temperature range	-20 to +80	°C	ESS tested in FAT
Storage temperature	-30 to + 70	°C	ESS tested in FAT
Shock temperature	-30 to + 20	°C	
Mechanical shock	30g, 11ms , ± in 3 axes		
Vibration sweep test	5-1000 Hz 5-25 Hz ± 2mm 25-1000 Hz, 5g 1 oct / min 5-1000-5 Hz (3 axes)		
Vibration endurance test	20-2000 Hz 20-80 Hz, +3dB octave 80-350 Hz, 0,04 g ² /Hz 350-2000 Hz, -3dB/octave 6,06 Grms 2 hours		ESS tested in FAT
Material compatibility	Full compatibility towards: <ul style="list-style-type: none"> - hydraulic oil's - silicone fluid - seawater - ozone - acid - alkaline - benzene 		

Ordering information
PS-2052 series Pressure Transmitter

Contact us to discuss:

- Custom specified pressure ranges
- Custom specified pressure ports
- Qualification reports
- Custom specified documentation level for each shipment
- Price / forecast
- Delivery time / projects
- Audits

Even Hatlo Andersen (Sales manager pressure products)

Scan-Sense AS

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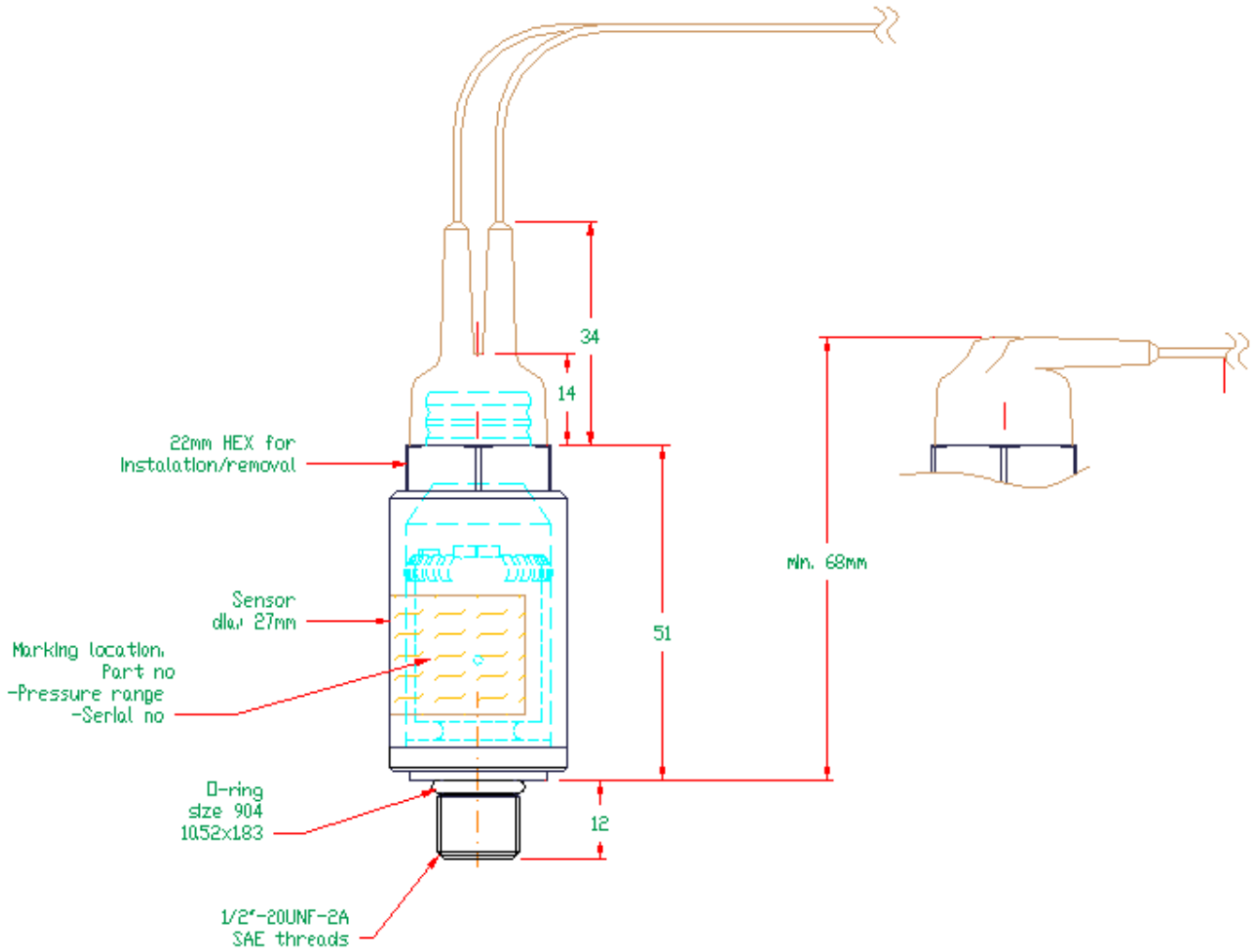
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