

# PS-2120

## Ex ia Pressure Transmitter

- ✓ For high pressure applications
- ✓ Total Accuracy < 0.25 % FS
- ✓ Fast response time (2ms)
- ✓ Intrinsically safe
- ✓ Atex Ex, and IECEx classified
- ✓ Use in harsh environments
- ✓ Field proven for more than 15 years
- ✓ Splash zone and submerged use



The PS-2000 family is a well proven 4-20mA output Pressure Transmitter with fast response time, high accuracy and long life time performance in harsh and hazardous environments.

By using thin-film strain gauge measuring technology, sputtered on Scan-Sense designed diaphragms, electron beam welded to an inlet, it is superior at both dynamic and static measurements of long life time and high pressure applications.

Both the design and material selection provide durable service with corrosive media, and comply with international accepted standards for materials operating in corrosive environments.

PS-2120 by Scan-Sense is digitally calibrated and temperature compensated with an analogue 4-20mA output signal in a two conductor configuration.

Extensive pressure & temperature cycling tests guarantee this pressure transmitter to be the right choice for the Oil and Gas industry.

Typical Applications are:

- ✓ Offshore Drilling
- ✓ Offshore Production
- ✓ Gas & Petrochemical Processes
- ✓ Hydraulics for Lifting, Pumps etc.
- ✓ Splash zone and submerged use.

## Technical information

<b>Pressure Ranges</b>	0-10 ... 1200 bar (g)
<b>Total Accuracy</b>	± 0,25% of Full Scale (± 0,5% FS Range < 0 - 40bar)
<b>Long Term Drift</b>	< ± 0,1% of Full Scale / Year
<b>Output Signal</b>	4 - 20mA (2-wire configuration)
<b>Supply Voltage</b>	10 - 28Vdc
<b>Typical Response Time</b>	< 2ms
<b>Safe Overpressure</b>	≤ 1,5 x Full Scale (or up to 1500 bar)
<b>Burst Pressure</b>	> 3 x Full Scale
<b>Ambient Temperature</b>	-20°C to + 80°C
<b>Medium Temperature</b>	-40°C to + 120°C
<b>Storage Temperature</b>	-40°C to + 125°C
<b>Protections</b>	Ingressive Protection IP68 (Type P) Hyperbaric 100bar/ 1000meter depth (Type J) Reverse Polarity Protection (All)
<b>Safety Classifications</b>	CE marking according to EU's EMC directives Atex directive 94/9EC (Dnv): Ex ia IIC T4 IECEX (NEMKO): Ex ia IIC T4 Ga
<b>Pressure Fitting</b>	Male ¼" BSP (others on request)
<b>Electrical Connection</b>	Cable (Top side version): Blue wire: Supply (+), Brown wire: Signal (-) M12 round connector with signal cable Souriau M10-Series/ Jupiter (Subsea version): -Pin 1 Supply (+), Pin 2: Signal (-), Pin 3 NA
<b>Materials</b>	Wetted parts: Hastelloy C22 Sensor Housing: Stainless Steel Grade 316
<b>Weight</b>	0,28 Kg (0.62 lb) without cable
<b>Documentation</b>	Calibration and Ex Certificates

Note: Due to continuous product improvements, published specifications may change without notice.

### Ordering details PS-2120

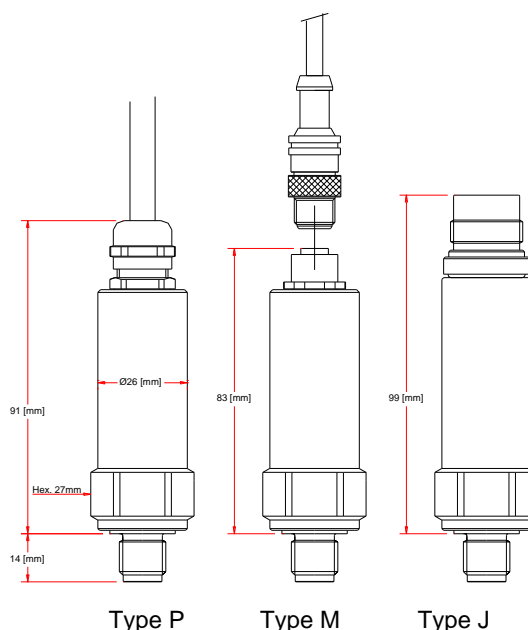
Part no:	Ranges*:
5PS21H300Kx	10..20 bar
5PS21H600Kx	20..40 bar
5PS21H121Kx	40..80 bar
5PS21H221Kx	75..150 bar
5PS21H451Kx	150..300 bar
5PS21H901Kx	300..600 bar
5PS21H182Kx	600..1200 bar

**P = Cable gland with fixed cable**  
ÖLFLEX® FD 855 CP

**M = M12 connector interface**  
Incl. 10m signal cable

**J = Subsea receptacle 3 pin**  
Souriau M-series Size 10 (Jupiter)  
cable with connector not included

K = ¼" BSP Male, for interface please refer to drawing SK01924  
Other pressure connections on request.  
\*Please specify Working Range and cable length when ordering



ScanSense AS is a Norwegian company specializing in design and manufacturing of high quality sensor solutions for pressure, load and force. The company has more than 28 years of experience of making tailor-made solutions for the oil and gas industry.

[www.scansense.no](http://www.scansense.no)

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