

PS30

Pressure and Temperature Transmitter

- ✓ For Subsea Pressure Applications
- ✓ High Total Accuracy up to < 0.05 % FS
- ✓ Low power consumption
- ✓ Ranges from 0-10 to 0-1200 Bar
- ✓ Temperature output included
- ✓ Use in harsh environments
- ✓ ASCII protocol interface TTL level
- ✓ *Zero adjustment possible*
- ✓ Field proven for more than 15 years



The PS30 is a well proven subsea pressure and temperature transmitter for high accuracy, high resolution and low power consumption. It's typically used in challenging subsea applications and for depth measurements.

By using thin-film strain gauge measuring technology, sputtered on Scan-Sense diaphragms, electron beam welded to the pressure port, it is superior at both dynamic and static measurements for long life time and high pressure applications, even in harsh environments.

It's electronics allows various parameters to be customized and optimized to the specific applications: baud rate, alarm limits, sampling rate and excitation voltage. The transmitters calibrated temperature

span and pressure range is set during production.

PS30 by is digitally calibrated and temperature compensated and is the right choice in battery powered applications.

It is manufactured, at our facilities in NORWAY, and highly skilled personnel assembles, calibrate, and tests our products according to established procedures.

Scan-Sense offers a high level of service to customers during all phases of the design and delivery.

Typical Applications are:

- ✓ ROV and AUV
- ✓ Transponders
- ✓ Diving equipment
- ✓ Trawl sensors

Technical information

Pressure Ranges	0-10 ... 1200 bar (SG)
Total Accuracy	$\pm 0,1\%$ FS over the compensated temperature range
Long Term Drift	$< \pm 0,1\%$ of FS / Year (remove with zero adjust in SW)
Output Signal	ASCII on TTL level, continuous output or at request
Baud rate	9600 b/s (others on request)
Sample rate	13 samples / sec
Resolution	FS / 40 000 typical
Startup time	2s to stabilization from powering up
Excitation Voltage	5,7 – 15 Vdc
Current consumption	$< 2\text{mA}$
Safe Overpressure	$\leq 1,5 \times$ Full Scale (or up to 1500 bar)
Burst Pressure	$> 3 \times$ Full Scale
Std. Compensated Temperature	+5°C to + 60°C
Storage Temperature	-40°C to + 80°C
Pressure Fitting	Male 1/4" BSP (others on request)
Electrical Connection	Molex KK® 254 Crimp Housing PN: 22-01-2045 (others on request)
Materials	Wetted parts: Hastelloy C22 Sensor Housing: Stainless Steel Grade 316
Weight	0,25 Kg (0.55 lb) without cable
Documentation	Calibration certificate

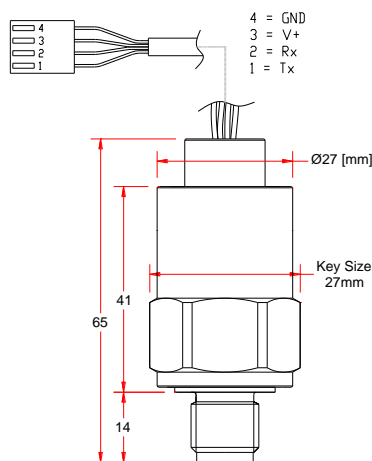
Note: Due to continuous product improvements, published specifications may change without notice.

Ordering details for PS30-003 5,0V

Part no:	Ranges:
5PS30H300-003-5.0	10..20 bar
5PS30H600-003-5.0	20..40 bar
5PS30H121-003-5.0	40..80 bar
5PS30H221-003-5.0	75..150 bar
5PS30H451-003-5.0	150..300 bar
5PS30H901-003-5.0	300..600 bar
5PS30H182-003-5.0	600..1200 bar

Please contact: post@scansense.no
for other available or new designs.

K = 1/4" BSP Male, for interface please refer to drawing SK01924
Other pressure connections on request.
*Please specify Working Range
*For programming refer to Scan-Sense Protocol SC00008



PS30-003

Scan-Sense 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.