

HT-PMP-S200 Weldless cell OEM pressure sensor





Plant Engineering

Industrial machinery

Agricultural machinery

Hydraulics

Automotive



Suitable for hydrogen applications (EC79)

- Compact design
- Up to 900 Bar
- Stainless Steel 316L wetted parts





HT-PMP-S200 weldless cell OEM pressure sensor



- Innovative stainless steel measuring cell with two-chip
- Technology (P2P) / (Patent pending)
- High media resistance, no internal seals, without weld seam
- Compact design, high integration density
- High added value, made in Germany
- Customisable designs possible
- Diagnostic function based on the output signal (optional)

DESCRIPTION

The piezoresistive, compact pressure transmitter (without oil reservoir) is based on a new type of two-chip technology (P2P), which enables the highest demands on robustness and performance such as stability, vibration/shock resistance. These are specially designed for OEM's for use in harsh environmental conditions, such as off-road sectors. All manufacturing steps from packaging in modern clean rooms to final calibration take place in our manufacturing plant in Germany. Special adaptations can be quickly evaluated and implemented.

TECHNICAL SPECIFICATIONS

Input parameters									
Pressure ranges* (in bar)	Pnominal	60	100	160	250	400	600	900	
	Poverload	120	200	320	500	800	1200	1400	
	Pburst	250	500	750	1000	1400	1800	2000	
							*R	elative pressure	
Mechanical Connections	Various threads available GI/4"A form E; G3/8" form G; 1/4"-18 NPT; 7/16-20 UNF								
Tightening torque	25Nm; max up to 50Nm								
Wetted parts	Stainless steel 1.4404/316L								
Body material	Stainless steel 1.4301/AISI 304								
Output sizes									
Electrical connections	Various el. connections e.g. Packard Metri-Pack; Binder MI2xI (plastic) 4P; DT 04-3P; DT 04-4P; AMP Superseal								
Output signals	utput signals 420mA, 15V								
	ratiomet	ratiometric 0.54.5V at UB = 5VDC							
Supply voltage	I2 = I032VDC; U5 = 832VDC; UR = 5VDC								
Response time	< Ims								
Performance characteristi	cs								
Accuracy	\leq 0.5%FS limit point settings (\leq 0.35%FS BFSL) at 25°C								
Overall accuracy	1.50% - 5°C85°C								
Long-term stability	≤ 0.1% FS/year at reference conditions								
Ambient temperature	- 40+105°C								
Medium temperature	- 40+125°C								
Storage temperature	- 40+125°C								
Shock resistance	1000g to IEC 60068-2-32								
Vibration resistance	20g to IEC 60068-2-6								
Protection class	IP 65/IP 67 (depending on electrical connection)								
Electrical protection									
Reverse polarity	Present UB+ / UB								
Dielectric strength	HV 350VDC								
Short-circuit strength	KS Out+ / UB- (for Is)								
CE-conformity									
EMV guideline	2014/30/EU acc. to DIN EN 61326-1, DIN EN 61326-2-3								
RoHS guideline	2011/65/EU								
Other	F.2								
Weight	~ 50g > 10 million load cycles								
Lifetime	> 10 mi	llion lo	ad cyc	ies					



MARKETS/APPLICATION





















ELECTRICAL CONNECTIONS



















Binder MI2xI 4P

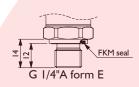
Packard Metri-Pack

AMP Superseal

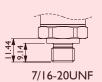
Deutsch DT04-3P

Deutsch DT04-4P

PROCESS CONNECTIONS



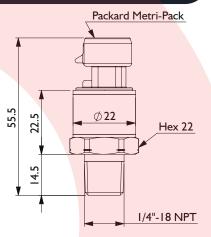






G 3/8", form G

PRODUCT CONSTRUCTION



ORDERING CODE

Integrated snubber on request



Replace A with the code for the approval required

= No approvals

= EC 79/2009 (up to 600 bar)

Replace BB with the code for output signals required

UR = 0.5...4.5 V (ratiometric)

Replace CCC with the code for measuring ranges required (bar/psi)

= 4...20 mA (2L)12

U5 = 1...5 V

= psi Other units available on request Replace **EE** with the code for electrical connections required

Replace **DD** with the code for unit required

= bar

16

= Binder M12x1 4P

= Packard Metri-Pack 02

= AMP Superseal

04 = Deutsch DT04-3P

= Deutsch DT04-4P

Other connections available on request

060 = 0...60 / 0...870 100 = 0...100 / 0...1450**160** = 0...160 / 0...2320

250 = 0...250 / 0...3626

400 = 0...400 / 0...5802

600 = 0...600 / 0...8702

900 = 0...900 / 0...13053

Replace FF with the process connections required

= GI/4 A form E06 = G3/8 form G

08 = 1/4-18 NPT

09 = 7/16-20 UNF

Other connections available on request

Other configurations available on request.

Ordering information for OEMS:

The HT-PMP-S200 pressure transmitter series has been specially developed for OEM use and is available from an order quantity of minimum 500 units per version (low quantities available for trial purposes).

ORDERING EXAMPLE

HT-PMP-S200-H-UR-600-01-05-01

HT-PMP-S200 with EC 79/2009 approval, 0.5...4.5V (ratiometric) output signal, 0...600 bar pressure range, Binder M12x1 (plastic); 4P electrical connections and G1/4"A form E.





