

- **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

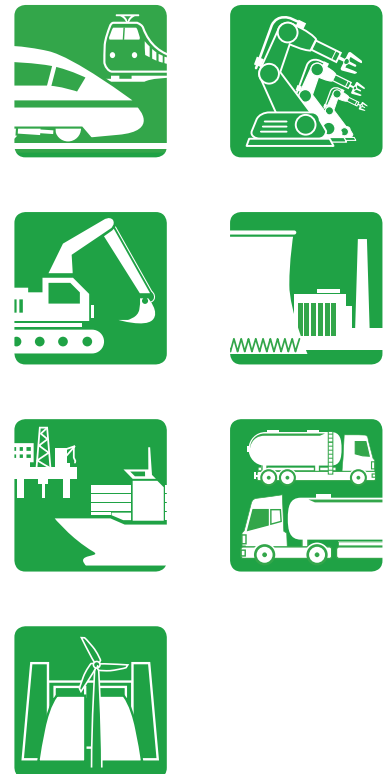
The piezoresistive, compact pressure transmitter (without oil reservoir) is based on a new type of two-chip technology (P2P), which enables the highest demands on robustness and performance such as stability, vibration/shock resistance. These are specially designed for OEM's for use in harsh environmental 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)	P _{nominal} 60 100 160 250 400 600 900
	P _{overload} 120 200 320 500 800 1200 1400
	P _{burst} 250 500 750 1000 1400 1800 2000
	* Relative pressure
Mechanical connections	various threads e.g. G1/4"A form E; G3/8" form G; 1/4"-18 NPT; 7/16-20 UNF
Tightening torque	typ 25 Nm; max up to 50 Nm
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 M12x1 (plastic) 4P; DT 04-3P; DT 04-4P; AMP Superseal
Output signals	4...20 mA, 1...5 V ratiometric 0.5...4.5 V at UB = 5V DC
Supply voltage	I2 = 10...32 V DC; U5 = 8...32 V DC; UR = 5 V DC
Response time	< 1 ms
Performance characteristics	
Accuracy	≤ 0.5 % FS limit point settings (≤ 0.35 % FS BFSL) at 25°C
Overall accuracy	1.50 % - 5°C...85°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	1000 g to IEC 60068-2-32
Vibration resistance	20 g 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 350 V DC
Short-circuit strength	KS Out+ / UB- (for 1 s)
CE-conformity	
EMV guideline	2014/30/EU acc. to DIN EN 61326-1, DIN EN 61326-2-3
RoHS guideline	2011/65/EU
Other	
Weight	~ 50 g
Lifetime	> 10 million load cycles

MARKETS/APPLICATION



ELECTRICAL CONNECTIONS

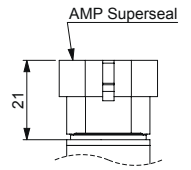
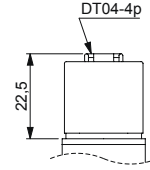
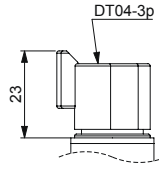
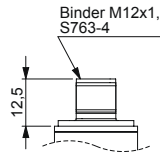
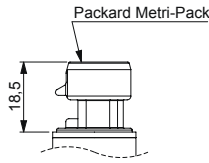
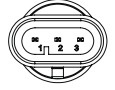
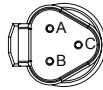
Packard Metri-Pack

Binder M12x1 (S763-4)*

DT04-3P

DT04-4P

AMP Superseal



	Pin A	Pin B	Pin C
0,5-4,5 V; 1-5 V	-	+	V/I out
4-20 mA	-	+	nc

Pin 1	Pin 2	Pin 3	Pin 4
+	V/I out	-	nc
+	nc	-	nc

Pin A	Pin B	Pin C
+	-	V/I out
+	-	nc

Pin 1	Pin 2	Pin 3	Pin 4
-	+	nc	V/I out
-	+	nc	nc

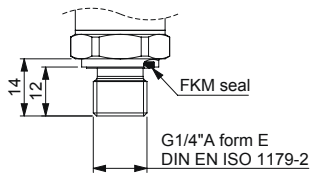
Pin A	Pin B	Pin C
V/I out	-	+
nc	-	+

* Plastic PBT-GF30

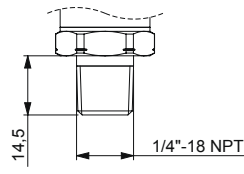
< 60 bar vented; different connector colours on request

PROCESS CONNECTIONS

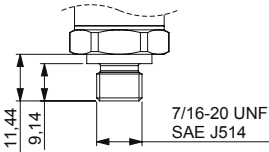
G 1/4" A form E



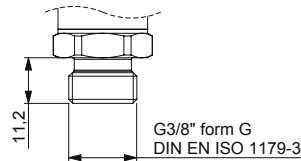
1/4"-18 NPT



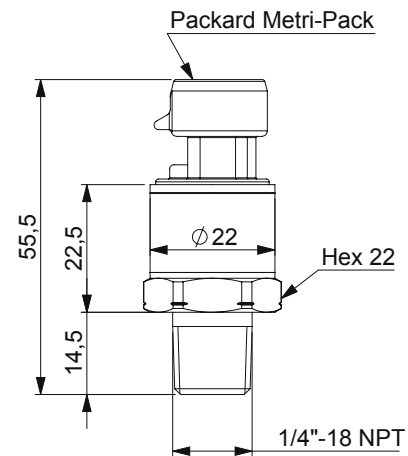
7/16-20UNF



G 3/8", form G



PRODUCT CONSTRUCTION



Integrated snubber on request

ORDERING CODE

HT-PMP-S200- **X-** **XX-** (**XX...XXXXX**)-**XX-** **X-** **XX-XX-XXX**

Series

HT-PMP-S200

Approvals

0 = No approvals

H = EC 79/2009 (up to 600 bar)

Output signals

UR = 0,5...4,5 V (ratiometric)

I2 = 4...20 mA (2L)

U5 = 1...5 V

Measuring ranges

0...60/100/160/250/400/600/900

Unit

00 = Special unit

01 = bar

16 = psi

Type of Pressure

g = Relative pressure

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).

Customised

Article number

Electrical connections

00 = Special connector

01 = Packard Metri-Pack

05 = Binder M12x1 (plastic); 4P

06 = DT 04-3P

14 = DT 04-4P

11 = AMP Superseal

Process connections

00 = special connection

01 = G1/4" A form E

06 = G3/8" form G

08 = 1/4"-18 NPT

09 = 7/16-20 UNF