PMP-S200

OEM pressure transmitter with monolithic stainless steel measuring cell



- 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
- Customizing possible
- Diagnostic function based on the output signal (optional)



The piezoresistive, very 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. It was specially designed for OEM series use in harsh environmental conditions, such as those that prevail in the off-road sector. All manufacturing steps from packaging in modern clean rooms to final calibration take place in Prignitz.

Customer-specific adaptations can be quickly evaluated and implemented.



| Input parameters | | | | | | | | |
|---------------------------|---|--------|----------|-------|------|-------|---------|---------|
| Pressure ranges* (in bar) | P _{nominal} | 60 | 100 | 160 | 250 | 400 | 600 | 900 |
| | Poverload | 120 | 200 | 320 | 500 | 800 | 1200 | 1400 |
| | P _{burst} | 250 | 500 | 750 | 1000 | 1400 | 1800 | 2000 |
| | | | | | | * Rel | ative p | ressure |
| 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 N | ٧m; ma | ax up to | 50 Nn | n | | | |
| 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 | 420 mA, 15 V | | | | | | | |
| . • | ratiometric 0.54.5 V at UB = 5V DC | | | | | | | |
| Supply voltage | I2 = 1032 V DC; U5 = 832 V DC; | | | | | | | |
| | UR = 5 V DC | | | | | | | |
| Response time | < 1 ms | | | | | | | |
| Performance characteris | tics | | | | | | | |
| Accuracy | ≤ 0.5 % FS limit point settings (≤ 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 | 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 | | | | | | | | |
| | ~ 50 g | | | | | | | |
| Weight | ~ 50 g | | | | | | | |



MARKETS/APPLICATION







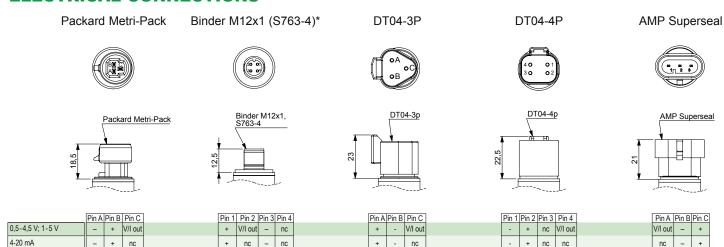






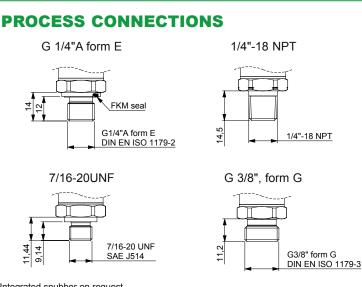


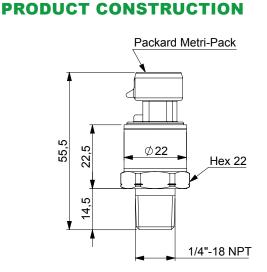
ELECTRICAL CONNECTIONS

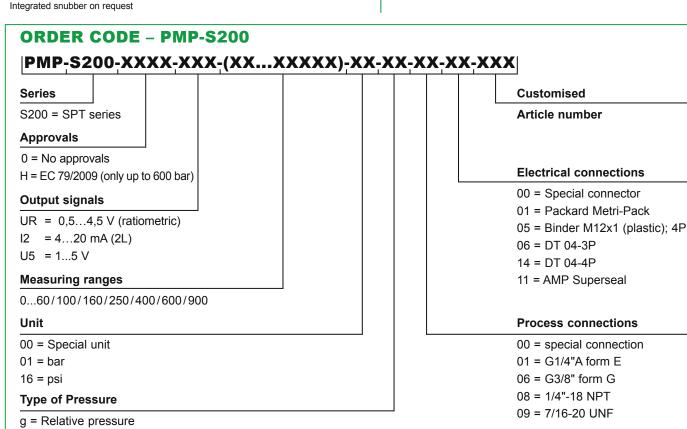


^{*} Plastic PBT-GF30

< 60 bar vented; different connector colours on request







The PMP-S200 pressure transmitter series has been specially developed for series use and is available from an order quantity of 500 units per version.

Ordering information for OEM: