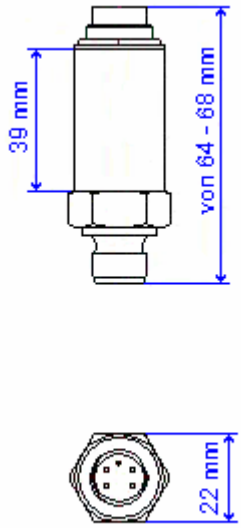
PT - MH1

Transmitter for Mobile hydraulics



Fields of applications

- Automobile engineering
- Gear control
- Oil pressure
- Diesel engines and natural gas engines
- Brake-systems
- Hydraulics

Description

Pressure transmitters with the dimensions named above and with a diameter of 22 mm are used especially in the field of vehicles.
Pressure connections with standard threads (for example, M12*1.5 or M14*1.5) with HEX 22 guarantee a high variety of possible applications (* others on request).
MQS-plugs or others are offered in the standard range of delivery.

PT-MH1 pressure transmitters are characterized by high operational safety:

- EMV up to 300 V/m
- vibration up to 50 g
- pressure cycles > 10 millions
- response time < 1 ms
- short circuit and pole protected

PRIGNITZ Mikrosystemtechnik GmbH • Deutschland / Germany – 19322 Wittenberge • Margarethenstr. 61
Phone: +49 3877 563933 • Fax: +49 3877 564074 • eMail: info@prignitz-mst.de
Homepage: http://www.prignitz-mst.de
Geschäftsführerin / Manager: Dipl.-Ing. Anna Flemming

Technical data

Measuring range	➢ -1 … +1 bar ➢ 0 … 2000 bar	
Output signal	➢ 0.5 … 4.5 V @ 5 V ➢ 4 … 20 mA ➢ 0 … 10 V ➢ 1 … 5 V mixed signal ASIC for signal processing	
Process connection	standard G 1/4 " form E optionally various pressure connections are available ➢ *see data sheet "Pressure connections"*	
Type of protection according to DIN 40050	IP 65 to IP 69 K	
Temperature of the medium	0 … + 125 °C	
Ambient temperature	-40 … +140 °C	
Special features	load-dump-protection EMV-proof up to 300 V / m	
Weight	90 g	
Sensor element	stainless steel membrane (without oil receiver) thin-film technology (Poly-Si on SiO2)	
Case	hermetically tight welded	
Total error	at room temperature	typ. 0.5 % FS
	-20 °C … +100 °C	< 1.5 % FS
Resistant to pressure peaks		
Shock- and vibration-proof		
Compatible with all common mediums, as petrol, diesel, AFT-oils, brake fluid and others.		

Safety information

During installation, putting into service and operation of these pressure sensors, it is necessary to observe the relevant safety regulations that are in force in the country of the user (as for example, DIN VDE 0100).

Errors excepted; subject to alterations in the sense of technical improvement.

PRIGNITZ Mikrosystemtechnik GmbH • Deutschland / Germany – 19322 Wittenberge • Margarethenstr. 61
Phone: +49 3877 563933 • Fax: +49 3877 564074 • eMail: info@prignitz-mst.de
Homepage: http://www.prignitz-mst.de
Geschäftsführerin / Manager: Dipl.-Ing. Anna Flemming