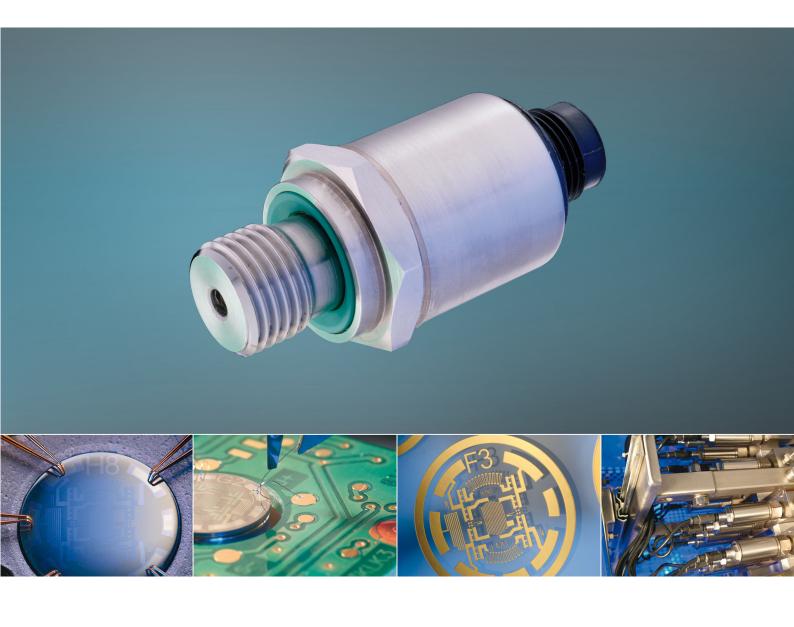


Pressure transmitter M01 Pressure transmitter M01



Pressure transmitter M01

The M01 is especially designed to be used in off-highway vehicles. The EMC, shock and vibration protection is designed for these machines and the rough environment they operate in.

The M01 is available for use in pressure ranges from 0 to 25 bar up to 0 to 800 bar. Within the compensated temperature range the accuracy is 1% overall. The M01 can be used with a medium temperature of up to 150°C (302°F) and the maximum permissible ambient temperature is 125°C (257°F). All wetted parts are of stainless steel (1.4548). In combination with the welded thin-film measuring element, the transmitter has a high media compatibility. An optional damping element can be integrated into the medium access. The housing is also constructed of stainless steel (1.4301).

The M01 is manufactured according to ISO/TS 16949 and is licensed in accordance with e1. The good cost/performance ratio makes this pressure transmitter ideal for series production in off-highway vehicles and for industrial use. OEM versions are also available.

Technical specifications

Pressure range, gauge		0 - 25 bar to 0 - 8	0 - 25 bar to 0 - 800 bar, other ranges available free of charge				
Standard pressure range	bar	50	100	250	400	800	
Overload	bar	100	200	500	800	1000	
Linearity, pressure hysteresis and repeatability	% FS	< 0.5					
Overall accuracy	% FS	< = 1.0 (0 to 80° C / 0 to 176° F) < = 1.5 (-25 to 100° C / -13 to 212° F) < = 2.5 (-40 to 125° C / -40 to 257° F)					
Long-run stability	% FS p.a.	< 0.2					
Media temperature		-40 to 150 °C (-40	-40 to 150 °C (-40 to 302°F)				
Operating temperature		-40 to 125 °C (-40 to 257°F)					
Storage temperature		-40 to 125 °C (-40 to 257°F)					
Voltage supply		9 - 36 V DC 14 - 36 V DC (0 - 10 V voltage output) allowable ripple @ 50 Hz: 10% 5 V DC (ratiometric output)					
Output signal		4 - 20 mA (2-wire-technique), 0/4-20 mA (3-wire-technique), 0-10 V, 0.5 - 4.5 V (ratiometric at 5V), short circuit protected					
Electrical connection		AMP-SuperSeal 1,	M12 connector, DIN-Bajonett (DIN 72585); AMP-SuperSeal 1,5; Cable output more connectors on request				
Pressure connection		G 1/4, 1/4 NPT, G	G 1/4, 1/4 NPT, G1/4 with manometer, more pressure connectors on request				
Protection class		IP 65 optional IP 6	IP 65 optional IP 69k (depends on used electrical connection)				
Starting torque		up to 35 Nm	up to 35 Nm				
EMC		EN 61000-6-2 EN 61000-6-3					
Shock		500g per IEC 6000	500g per IEC 60068-2-27 (Shock mechanical)				
Vibration		20g per IEC 60068	20g per IEC 60068-2-6 (Vibration at resonance)				
Material wetted parts		1.4548 / FKM	1.4548 / FKM				
Material housing		1.4301	1.4301				
Material diaphragm		1.4548	1.4548				

Pressure transmitter M01

Electrical connection Protection class IP (IEC 60 529)

CIRCULAR PLUG-IN CONNECTOR

M 12x1, 5-pole, IP 67

PIN assignment: Vcc = 1, Signal = 3 (2-wire-technique) Vcc = 1, GND = 3, Signal = 4 (3-wire-technique) please do not assign the other PINs!



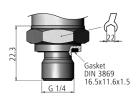
CONNECTOR FOR AMP SUPERSEAL 1,5 3-pole, IP 67

 $\begin{array}{c} \text{PIN assignment:} \quad \text{Vcc} = 3\text{, Signal} = 1\text{ (2-wire-technique)} \\ \text{Vcc} = 3\text{, GND} = 1\text{, Signal} = 2\text{ (3-wire-technique)} \\ \text{please do not assign the other PINs!} \end{array}$



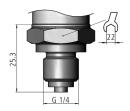
Pressure connection

G 1/4, DIN 3852 T 11 (Form E)



G 1/4 with manometer

Manometer per EN837-1 (optional DIN 16288)



BAYONET CONNECTOR

DIN 72 585, 4-pole, IP 69k

PIN assignment: Vcc = 1, Signal = 2 (2-wire-technique) Vcc = 1, GND = 2, Signal = 3 (3-wire-technique) please do not assign the other PINs!

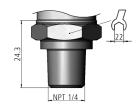


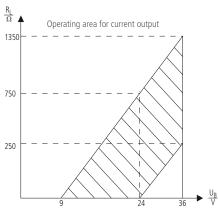
CABLE OUTPUT

IP 69k



per "Nominal width for US-Standard bevelled pipe thread NPT"

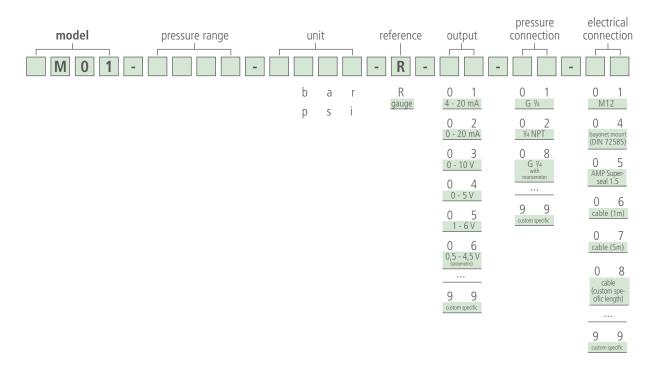




Current output: load $R_L = \frac{U_B - 9 V}{0.02 A}$

Voltage output: load $R_L > 10 k\Omega$

Order codes





Sensor-Technik Wiedemann GmbH Steuer- und Regelelektronik

Am Bärenwald 6 87600 Kaufbeuren Germany

Telephone +49 (0) 8341 9505-0 Telefax +49 (0) 8341 9505-55 info@sensor-technik.de E-Mail www.sensor-technik.de Internet

STW-Technic, LP Mobile Controllers and **Measurement Technologies**

3000 Northwoods Parkway, Suite 260 Norcross, GA 30071, USA Telephone +1 (770) 242-1002 Telefax +1 (770) 242-1006 E-Mail sales@stw-technic.com www.stw-technic.com

Internet

Sensor-Technik UK Ltd.

Unit 1, Stoke Mills Mill Road Sharnbrook, Bedfordshire MK44 1NN England

Telephone +44 (0) 1234 7820-49 Telefax +44 (0) 1234 7820-56 E-Mail info@sensor-technik.co.uk Internet www.sensor-technik.co.uk