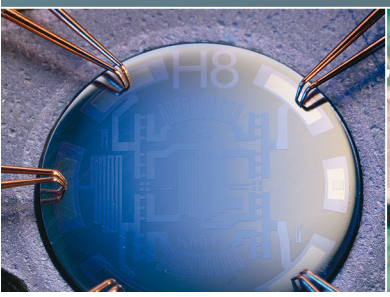
Pioneering new technologies
Pioneering new technologies

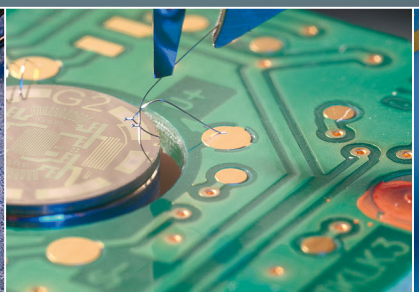
Sensor-Technik Wiedemann GmbH
Mobile Controllers and Measurement Technologies

Pressure transmitter A09

Pressure transmitter A09











Pressure transmitter A09 – for gauge pressure

Characteristics

- Thin film measurement element without oil filling
- Complete stainless steel construction
- Optimized for hydraulic systems
- Simple mounting
- Temperature compensated
- Max. media temperature: 125° C (option: -HT)
- Pressure equalization with GORETEX®-membrane (optional up to 10 bar)



Applications

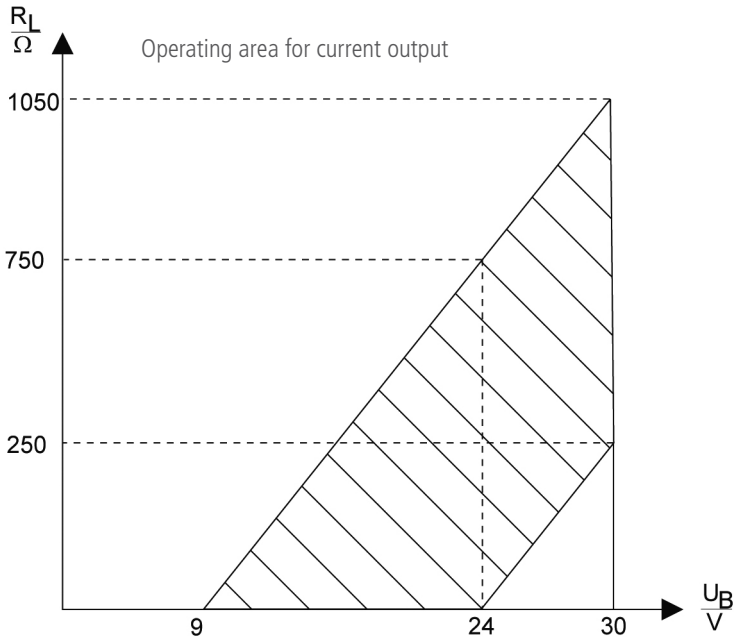
- Hydraulic facilities
- Testing stands
- Industrie and research
- Process engineering

Technical specifications

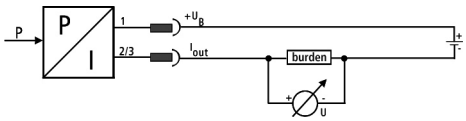
Pressure range, gauge		0 ... 3 bar to 0 ... 3000 bar, other ranges available free of charge											
Standard pressure range	bar	3	5	7	10	20	60	160	400	800	1000	2000	3000
Overload	bar	6	10	14	20	40	100	300	600	1200	1200	2200	3200
Linearity	% FS (typ.)	0.6	0.4	0.3		0.5	0.2						
Pressure hysteresis and repeability	% FS	0.05				0.1							
Thermal effect on zero	% FS/10K	0.2 (0 ... 50° C) / 0.4 (-25 ... 85° C)				0.2 (0 ... 50° C) / 0.3 (-25 ... 85° C)							
Thermal effect on span	% FS/10K	0.2 (0 ... 50° C) / 0.4 (-25 ... 85° C)				0.1 (0 ... 50° C) / 0.2 (-25 ... 85° C)							
Media temperature range	°C	-25 ... 85				-25 ... 85 / -40 ... 125 (option: -HT)							
Operating temperature range	°C	-25 ... 85				-25 ... 85 / -40 ... 125 (option: -HT)							
Storage temperature range	°C	-25 ... 85				-25 ... 85 / -40 ... 125 (option: -HT)							
Excitation voltage		9 ... 30 V DC 14 ... 30 V DC (voltage output) 5 VDC (ratiometric output) allowable ripple @ 50 Hz: 10%											
Output signal		4-20 mA (2-wire-technique), 0-20 mA, 0-10 V, 0.5-4.5 V (ratiometric output)											
Electrical connection		M12 connector, protection plug according to EN 175301-803 (DIN 43650), 4 pole MPM plug (M12-cable-connector not included) reverse polarity and shortcircuit (not with ratiometric output)											
Pressure connection		G 1/4, G 1/2, 1/4 NPT, other threads on request											9/16-18 UNF
Protection class		IP 67* (M12 connector), IP 65 (other connectors) *the GORE-TEX® -membrane (up to 10 bar)											
EMC		EN 61000-6-2 EN 61000-6-3											
Material pressure connection		1.4571							1.4542				1.4548
Material housing		1.4571											
Material diaphragm		1.4568				1.4548							

Pressure transmitter A09 – for gauge pressure

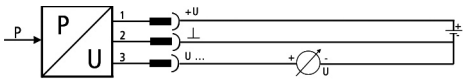
Operating area for current output



Electrical connection for 2-wire-technique



Electrical connection for 3-wire-technique



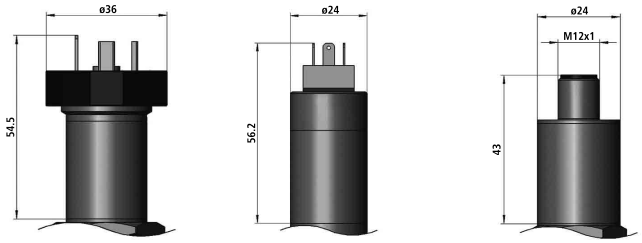
Current output: load $R_L = \frac{U_B - 9\ V}{0{,}02\ A}$

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

Connection STW-Pressure transducer

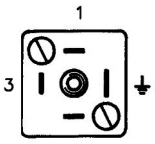
	2-wire		3-wire
	M12 plug	other plugs	
+U_B	1	1	1
GND	–	–	2
Output	3	2	3

housing/connector
EN 175301-803 MPM M12



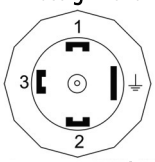


M12 connector



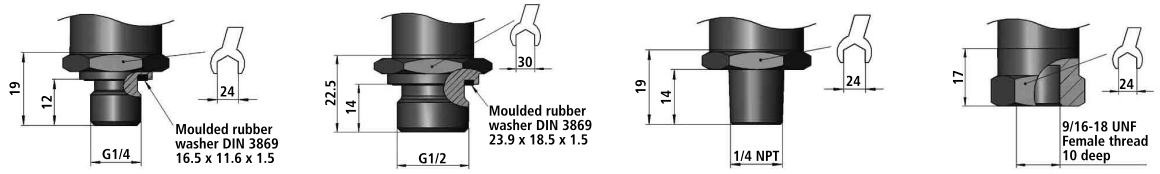
MPM connector

Pin assignment



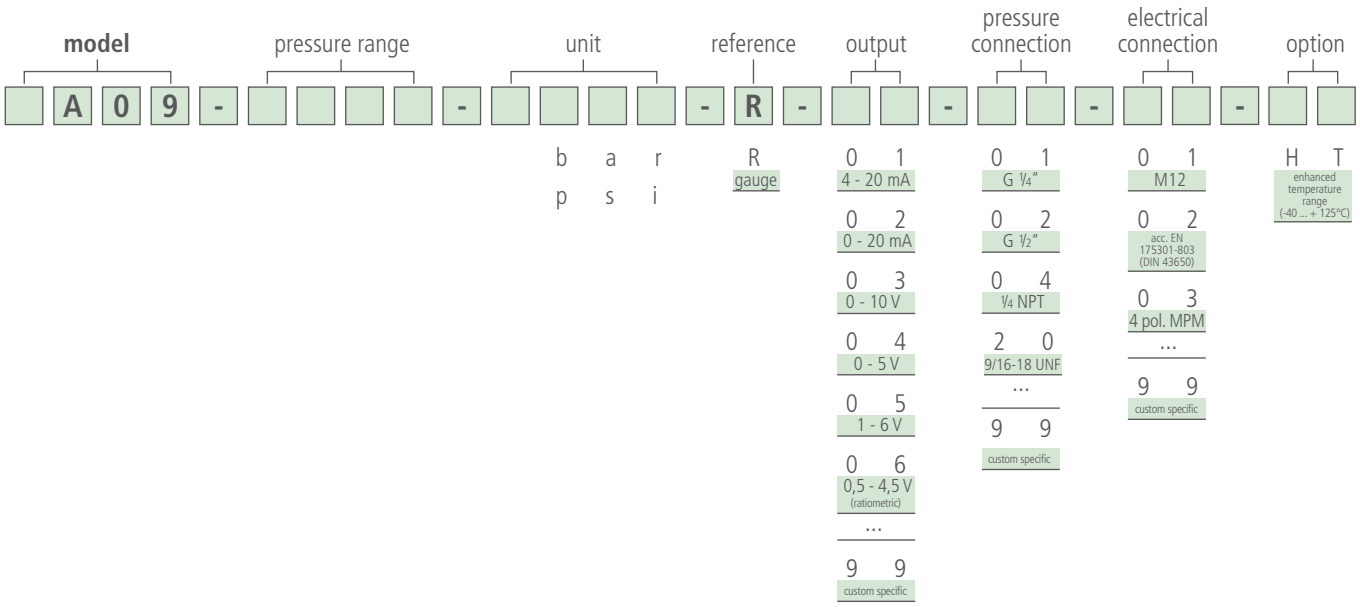
Connector according to DIN 43650

pressure connection
G ¼ G ½ ¼ NPT 9/16-18UNF



Order codes overleaf!

Order codes



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– Subject to change without notice –

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