

Pioneering new technologies
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Sensor-Technik Wiedemann GmbH
Mobile Controllers and Measurement Technologies

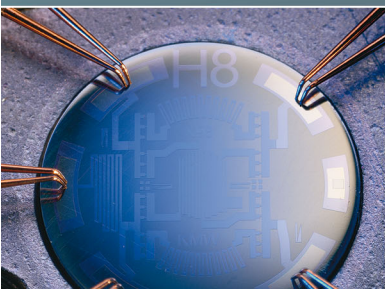


Tect Electronics

The authorized distributor in the Greater China Region

Pressure transmitter A09

Pressure transmitter A09



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)



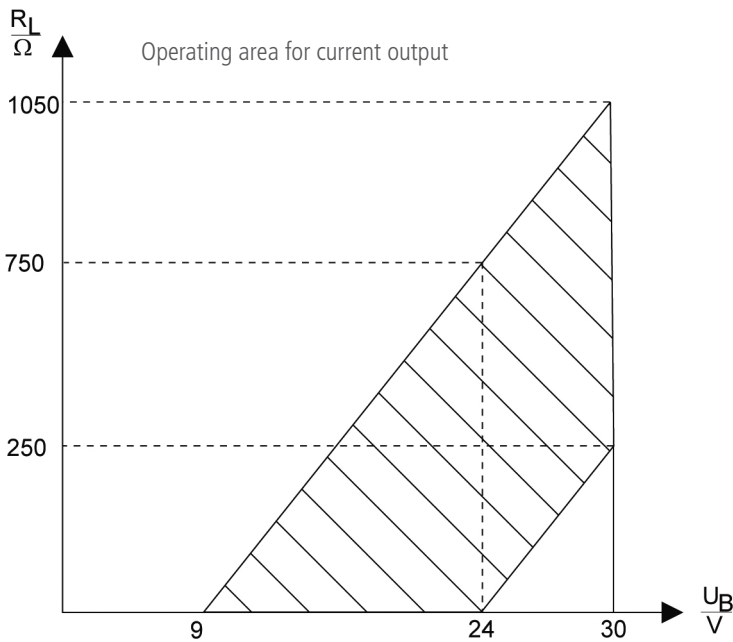
Applications

- 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) allowable ripple @ 50 Hz: 10% 5 VDC (ratiometric output)													
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 reverse polarity and shortcircuit (not with ratiometric output) (M12-cable-connector not included)													
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								

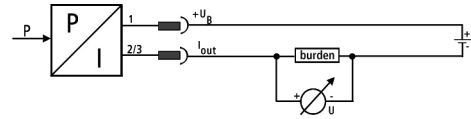
Pressure transmitter A09 – for gauge pressure



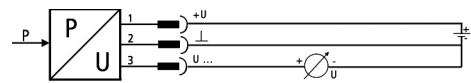
Current output: load $R_L = \frac{U_B - 9 V}{0,02 A}$

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

Electrical connection for 2-wire-technique



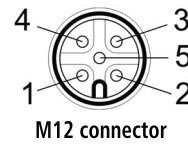
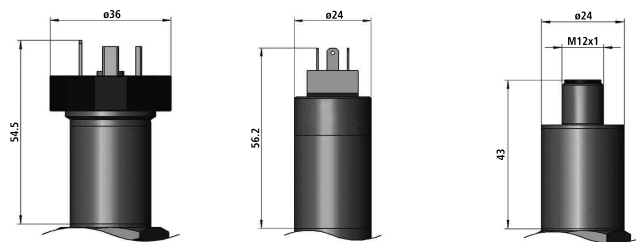
Electrical connection for 3-wire-technique



Connection STW-Pressure transducer

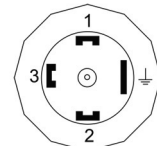
	2-wire		3-wire
	M12 plug	other plugs	
+UB	1	1	1
GND	–	–	2
Output	3	2	3

housing/connector EN 175301-803 MPM M12

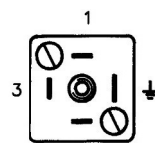


M12 connector

Pin assignment

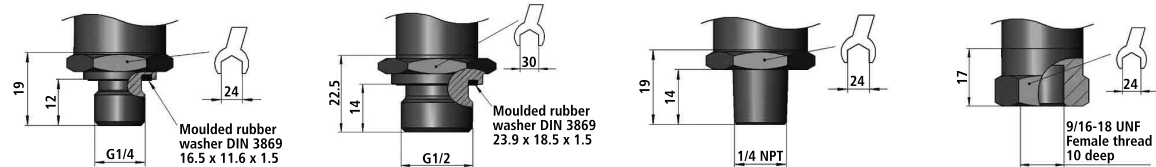


Connector according to DIN 43650



MPM connector

pressure connection G 1/4 G 1/2 1/4 NPT 9/16-18UNF



Order codes overleaf!

Order codes

model				pressure range				unit				reference		output		pressure connection		electrical connection		option	
A	0	9	-									R	-								
								b	a	r		R		0 1		0 1		0 1		H	T
								p	s	i		gauge		4 - 20 mA		G 1/4"		M12			
														0 2		0 2		0 2			
														0 - 20 mA		G 1/2"		acc. EN 175301-803 (DIN 43650)			
														0 3		0 4		0 3			
														0 - 10 V		1/4 NPT		4 pol. MPM			
														0 4		2 0		...			
														0 - 5 V		9/16-18 UNF					
														0 5		...		9 9			
														1 - 6 V				custom specific			
														0 6		custom specific					
														0,5 - 4,5 V (ratio metric)							
														...							
														9 9							
														custom specific							



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
 E-Mail info@sensor-technik.de
 Internet www.sensor-technik.de

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
 Internet www.stw-technic.com

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