

Pioneering new technologies
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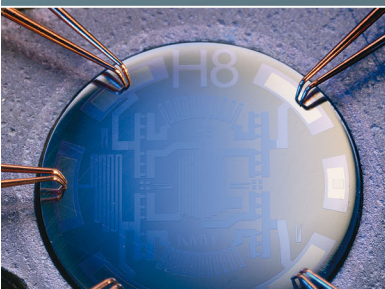


Sensor-Technik Wiedemann GmbH
Mobile Controllers and Measurement Technologies

TEC *Tect Electronics*
The authorized distributor in the Greater China Region

Pressure transmitter L03

Pressure transmitter for the food industry L03



Pressure transmitter for the food industry L03 – for absolute or gauge pressure

Characteristics

- Flush stainless-steel diaphragm
- Piezoresistive measuring element
- High accuracy
- Compact construction
- High temperature range up to 125°C (option: -HT)
- Pressure equalization GORETEX®-membrane

Applications

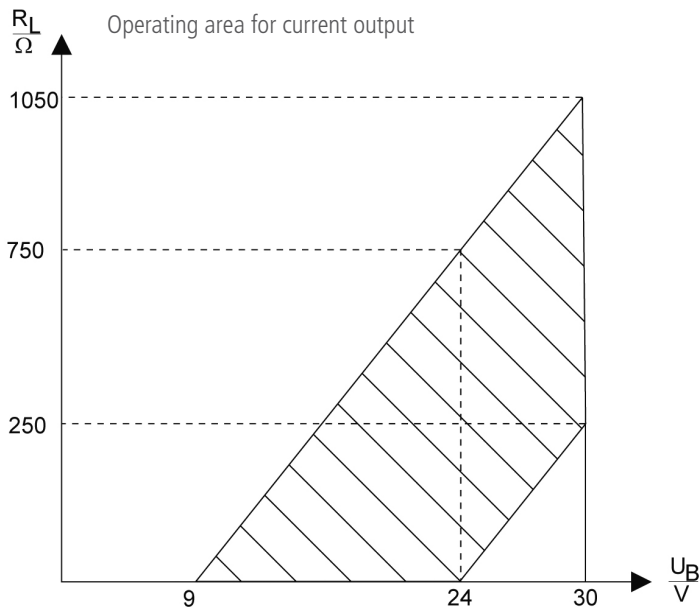
- For measurement, regulation and controlling functions in the food and beverage industry, especially for level measurement



Technical specifications

Pressure range		0 ... 0,1 bar to 0 ... 20 bar, other ranges available free of charge							
Standard pressure range	bar	0.1	0.2	0.5	1	2	5	10	20
Overload	bar	2.5	2.5	2.5	3	4	7	15	30
Linearity	% FS (typ.)	0.5							
Pressure hysteresis and repeability	% FS	0.1							
Thermal effect on zero	% FS/10K	0.7	0.5	0.3	0.2				
Thermal effect on span	% FS/10K	0.3	0.2	0.1	0.1				
Media temperature range	°C	-25 ... +85, -25 ... +125 (option: -HT)							
Operating temperature range	°C	-25 ... +85, -25 ... +110 (option: -HT)							
Storage temperature range	°C	-25 ... +90, -40 ... +125 (option: -HT)							
Excitation voltage		9 ... 30 VDC permissible ripple @ 50 Hz: 10% 14 ... 30 VDC (voltage output)							
Output signal		4-20 mA (2-wire-technique), 0-20 mA, 0-10 V							
Electrical connection		M12 connector, Kapillar-Kabel (5m included), reverse polarity and shortcircuit protection capillary (M12-cable-connection not included)							
Pressure connection		for mounting in weld-flange SF01							
Protection class		IP 67							
EMC		EN 61000-6-2 EN 61000-6-3							
Material pressure connection		1.4571 resp.1.4435							
Material membrane/housing		1.4435 / 1.4571							

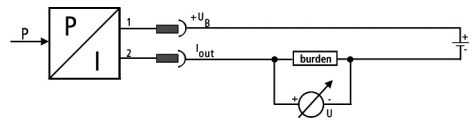
Pressure transmitter for the food industry L03 – for absolute or gauge pressure



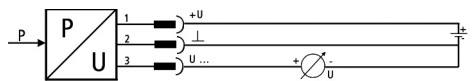
Current output: load $R_L = \frac{U_B - 9V}{0,02A}$

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

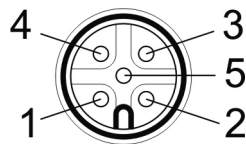
Electrical connection for 2-wire-technique



Electrical connection for 3-wire-technique

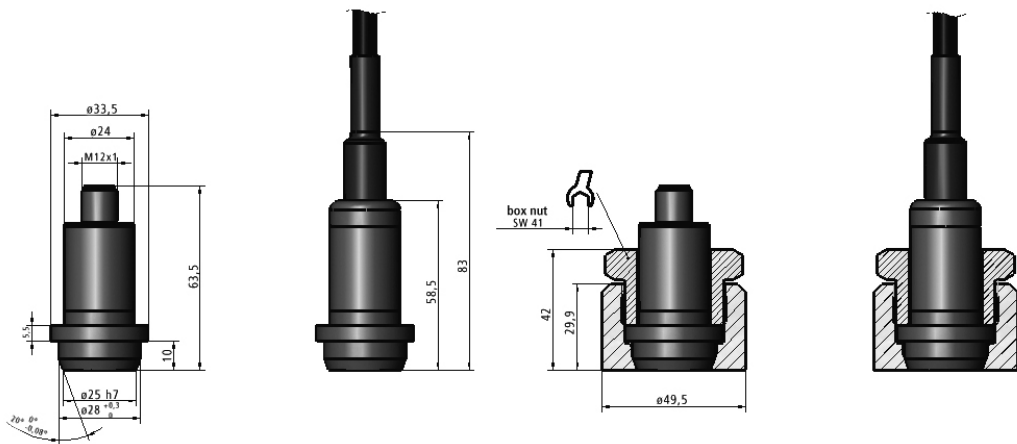


Pin occupancy M12-connector



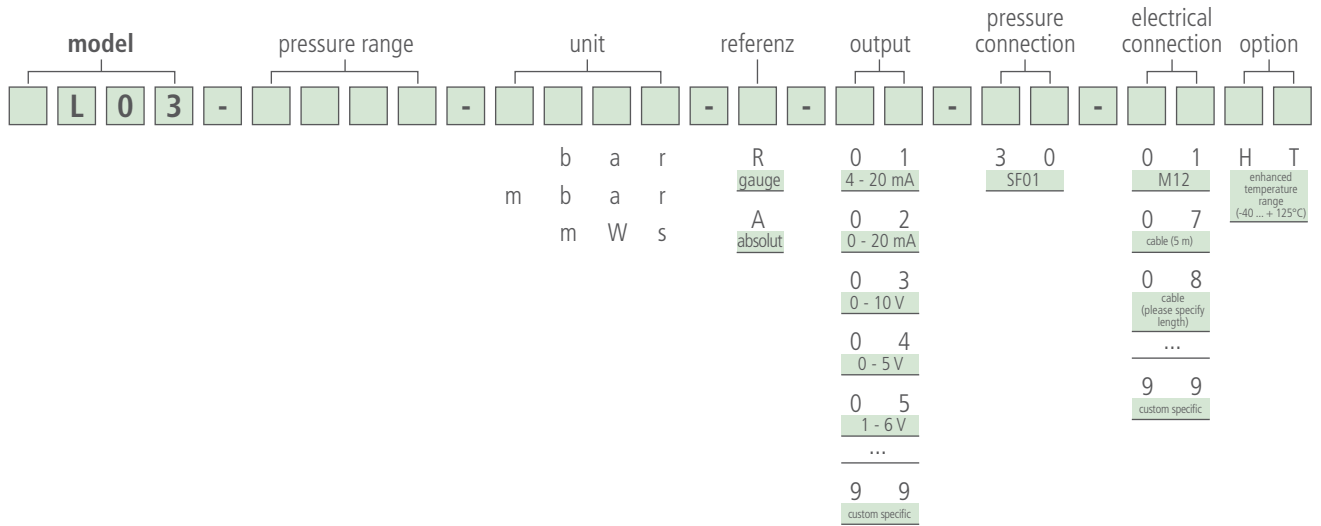
Connection STW-Pressure transmitter

	2-wire		3-wire	
	M12 plug	cable	plug	cable
+UB	1	red	1	red
GND	–	–	2	blue
Output	3	blue	3	grey



Order codes overleaf!

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
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