

FOR FINE PRESSURE AND FLOW MEASUREMENT

OEM relative pressure transmitter type 506

Pressure range -0.5 ... 7 bar / 0 ... 10 – 60 bar



Type 506 pressure transmitters are suitable for different applications in the field of industrial refrigeration due to it's application specific pressure connections.

Partially automated manufacturing allows the efficient production of large quantities, resulting in an excellent price / performance ratio.



- Compact construction
- Automated manufacture in large quantities for ideal price / performance ratio
- Robust ceramic sensor technology
- High resistance to extreme temperatures
- No mechanical creepage

Technical	overview			
Pressure range Relative	ge			-0.5 7 bar / 0 10 – 60 bar
Operating co	onditions			
Medium			Medium / ambient	Refrigerants -40 +80 °C
Temperature			Storage	-40 +80 °C
Tolerable ove	erload		23213.32	2 x fs (max. 80 bar)
Repture pres	ssure			3 x fs (max. 90 bar)
Matariala				
Materials Case				PA6, red
cusc			Sensor	Ceramic Al ₂ O ₃ (96%)
Materials in contact with the medium			Pressure connection	Stainless steel 1.4305 / AISI 303
			Sealing material	CR (chlorine caoutchouc)
Electrical ove	arviow			
LIECUICAI OVE	Output	Power supply	Load	Current consumption ¹⁾
2	4 20 mA	8.0 33 VDC	< supply voltage - 8 V [Ohm]	< 20 mA
2 wire	4 20 mA	10.0 33 VDC	< supply voltage - 10 V [Ohm]	< 20 mA
	0 5 V	9.0 33 VDC	> 10 kOhm / < 100 nF	< 5 mA
3 wire	1 6 V 0 10 V	10.4 33 VDC 16.2 33 VDC	> 10 kOhm / < 100 nF > 10 kOhm / < 100 nF	< 5 mA < 6 mA
	ratiom. 10 90%	5 VDC ±5%	> 10 kOhm / < 100 hF	< 3 mA
Polarity rever	rsal protection Shor	rt circuit proof and protected against p		tected against crossover up to max. supply voltage.
Dynamic resp Response tim Load cycle Protection st IP 65 Electrical cor	ne andard			< 5 ms < 50 Hz
Cable 1.5 m				
	DIN EN 175301-803-A			
	OIN EN 175301-803-C (Mir	ni DIN)		
Connector N	И12x1 (pastic)			
Pressure con	inection			
Inside thread				7/ ₁₆ - 20 UNF Schrader
Outside thre	ad			7/ ₁₆ - 20 UNF 1/ ₄ -18 NPT
logialistico s				74 10 10 1
Installation a	arrangement d: Pressure connection dov	wnwards		
recommene	d. Tressure connection do	wiiwaius		
Tests / Admis				
Electromagne	etic compatibility			CE conformity acc. EN 61326-2-3
Woight				
Weight With inside t	thread			~ 95 g
With outside			~ 110 g	
	.5 m additional	~ 40 g		
	Please state on order)			
	ging in cardboard			
iviuitiple pac	kaging in cardboard per 2	5 pcs.		

Accuracy

Parameter		Unit	0 10 bar	> 10 60bar
Tolerance zero point	max.	% fs	± 1.0	± 1.0
Tolerance full scale	max.	% fs	± 1.0	± 1.0
Resolution		% fs	0.1	0.1
Total of linearity,				
hysteresis and repeatability max		% fs	± 1.0	± 0.5
Long term stability acc. to DIN EN 60770		% fs	± 1.0	± 1.0
TC zero point 2)		% fs/10K	± 0.4	± 0.4
TC sensitivity 2)		% fs/10K	- 0.15	- 0.15
TC sensitivity 2) max		% fs/10K	- 0.3	- 0.3

Test conditions: 25 °C, 45% RH, power supply 24 VDC TC z.p. / TC s. -40 ... +80 °C

1) At nominal pressure ²⁾ TC = Temperature coefficient

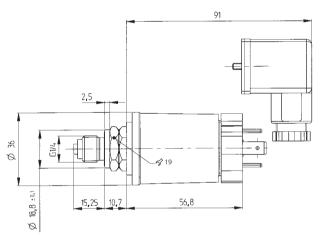
Order code selection table			9	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Pressure range	0 10 bar			3	0							
<u> </u>	0 16 bar			3	1							
	0 25 bar			3	2							
	0 40 bar			3	3							
	0 60 bar			4	0							
	▲ Full scale signale at these pressures											
Sealing material 1)	CR					Α						
Adjustment	Factory						0					
Output / power supply	0 5 V 9.0 33 VDC							1				
	1 6 V 10.4 33 VDC							6				
	0 10 V 16.2 33 VDC							2				
	4 20 mA 10.0 33 VDC							3				
	4 20 mA 8.0 33 VDC							8				
	ratiom. 10 90% 5 VDC ±5%							4				
Electrical connection	Cable 1.5 m							0				
	Connector ²⁾ DIN EN 175301-803-A								1			
	Connector 2) DIN EN 175301-803-C (mini DIN)								2			
	Connector ²⁾ M12x1 (plastic)								3			
Pressure connection	Inside thread 7/16 - 20 UNF Schrader									0	1	
	Outside thread 7/16 - 20									2		
	Outside thread 1/4 - 18 NPT									3		
Pressure tip orifice	without										1	
	with										2	
Pressure range variation	Indicate W and state range on order (e.g.: W08bar/Out18V)											W

Storage versions

Output Power supply Electrical connection 2) Pressure connection Sealing material Colour of cover

4 ... 20 mA 10 ... 33 VDC Connector DIN EN 175301-803-A, IP 65 Inside thread 7/16-20 UNF

CR (chlorine caoutchouc) black



Pressure range -0.5 ... 7 bar 0 ... 25 bar

Order number

506.930A23101W-0.5...7 bar 506.932A23101W0 ... 25 bar

Female connector DIN EN 175301-803-A

Accessories 3)

	Order number
Female connector DIN EN 175301-803-A with seal (IP 65, when installed and latched)	103510
Female connector DIN EN 175301-803-C (mini DIN) with seal (IP 65, when installed and latched)	104244
Female connector M12x1	103524
Calibration certificate	104551

