

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 its 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 -0.5 ... 7 bar / 0 ... 10 – 60 bar

Operating conditions

Medium		Refrigerants
Temperature	Medium / ambient	-40 ... +80 °C
	Storage	-40 ... +80 °C
Tolerable overload		2 x fs (max. 80 bar)
Repture pressure		3 x fs (max. 90 bar)

Materials

Case		PA6, red
Materials in contact with the medium	Sensor	Ceramic Al ₂ O ₃ (96%)
	Pressure connection	Stainless steel 1.4305 / AISI 303
	Sealing material	CR (chlorine caoutchouc)

Electrical overview

	Output	Power supply	Load	Current consumption ¹⁾
2 wire	4 ... 20 mA	8.0 ... 33 VDC	< $\frac{\text{supply voltage} - 8\text{V}}{0.02\text{A}}$ [Ohm]	< 20 mA
	4 ... 20 mA	10.0 ... 33 VDC	< $\frac{\text{supply voltage} - 10\text{V}}{0.02\text{A}}$ [Ohm]	< 20 mA
3 wire	0 ... 5 V	9.0 ... 33 VDC	> 10 kOhm / < 100 nF	< 5 mA
	1 ... 6 V	10.4 ... 33 VDC	> 10 kOhm / < 100 nF	< 5 mA
	0 ... 10 V	16.2 ... 33 VDC	> 10 kOhm / < 100 nF	< 6 mA
	ration. 10 ... 90%	5 VDC ±5%	> 10 kOhm / < 100 nF	< 3 mA
Polarity reversal protection Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.				

Dynamic response

Response time	< 5 ms
Load cycle	< 50 Hz

Protection standard

IP 65

Electrical connection

Cable 1.5 m
Connector DIN EN 175301-803-A
Connector DIN EN 175301-803-C (Mini DIN)
Connector M12x1 (pastic)

Pressure connection

Inside thread	$\frac{7}{16}$ - 20 UNF Schrader
Outside thread	$\frac{7}{16}$ - 20 UNF
	$\frac{1}{4}$ - 18 NPT

Installation arrangement

Recommended: Pressure connection downwards

Tests / Admissions

Electromagnetic compatibility CE conformity acc. EN 61326-2-3

Weight

With inside thread	~ 95 g
With outside thread	~ 110 g
With cable 1.5 m additional	~ 40 g

Packaging (Please state on order)

Single packaging in cardboard
Multiple packaging in cardboard per 25 pcs.

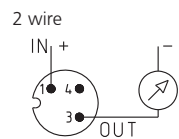
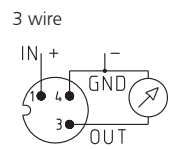
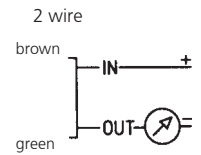
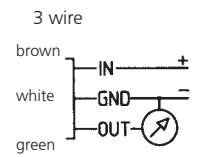
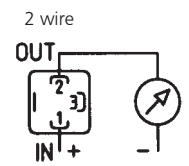
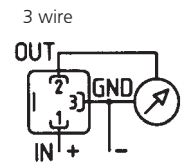
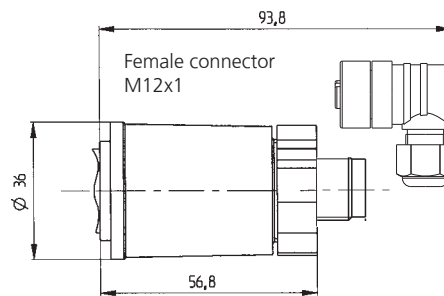
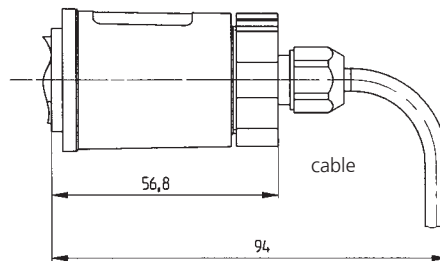
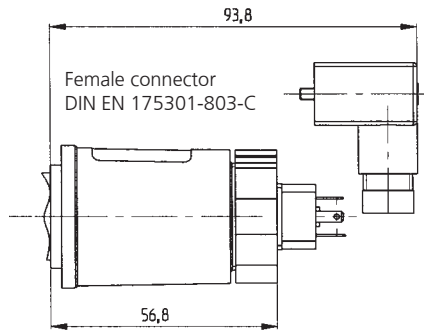
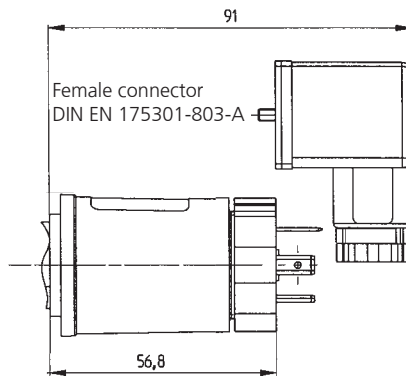
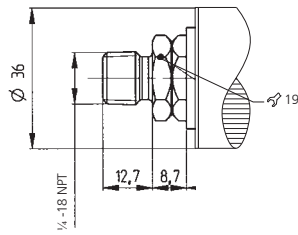
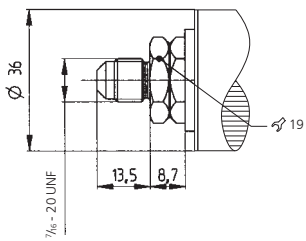
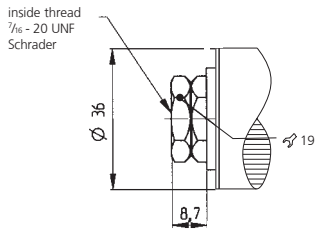
Accuracy

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⁾	max.	% fs/10K	± 0.4	± 0.4
TC sensitivity ²⁾	typ.	% 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





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FOR FINE PRESSURE AND FLOW MEASUREMENT

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