

OEM relative and absolute pressure transmitter type 511

Pressure range
-1 ... 0 – 600 bar



Type 511 pressure transmitters meet the highest specifications for longevity, accuracy, temperature stability and EMC characteristics, making them suitable for an extremely wide range of demanding industrial applications.

- Compact, rugged construction for highest operational reliability
- No media egress when exceeding rupture pressure
- Negligible temperature influence on accuracy
- Excellent EMC capacity
- Saving time by quick cable mounting by the customer with swift connector

Technical overview

Pressure range

Relative	-1 ... 0 – 600 bar
Absolute	0 ... 25 bar

Operating conditions

Medium		Liquids and gases
Temperature		FPM -15 ... +125 °C
		EPDM -25 ... +125 °C
		NBR -25 ... +85 °C
		FPM spec. -40 ... +150 °C (UL max. 125 °C)
	Ambient ¹⁾	ration. output, AMP JPT max. +125 °C all other versions max. +85 °C
Tolerable overload / Rupture pressure ²⁾	< 6	3.0 x fs
	≥ 6	2.5 x fs (max. 900 bar)

Materials

Case		Stainless steel 1.4305 / AISI 303
Materials in contact with the medium	Pressure connection	Stainless steel 1.4305 / AISI 303
	Sensor	Ceramic Al ₂ O ₃ (96%)
	Media stop system	PPS
	Sealing material	FPM, EPDM, NBR, FPM spec.

Media stop system

Huba-patented media stop system to prevent media egress when exceeding rupture pressure range (> 40 bar nominal value).

Electrical overview

	Output	Power supply	Load	Current consumption ⁴⁾
2 wire	4 ... 20 mA	8.0 ... 33 VDC	< $\frac{\text{supply voltage} - 8V}{0.02A}$ [Ohm]	< 20 mA
	0 ... 5 V	8.0 ... 33 VDC	>10 kOhm / < 100 nF	< 4 mA
	1 ... 6 V	8.0 ... 33 VDC	>10 kOhm / < 100 nF	< 4 mA
3 wire	0 ... 10 V	11.4 ... 33 VDC	>10 kOhm / < 100 nF	< 4 mA
	0 ... 10 V	24 VAC ±15%	>10 kOhm / < 100 nF	< 4 mA
	ration. 10 ... 90%	5 VDC ±5%	>10 kOhm / < 100 nF	< 4 mA
Polarity reversal protection	Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.			
Insulation voltage			standard	500 VDC
			optional	1000 VDC

Dynamic response

Response time	< 2 ms, typ. 1 ms
Load cycle	< 100 Hz

Protection standard

With connector DIN EN 175301-803-C	IP 65
All other versions	IP 67

Electrical connection

Cable 1.5 m
Swift connector
Connector AMP (Junior power time)
Connector M12x1 plastic thread
Connector M12x1 metal thread
Connector DIN EN 175301-803-C (mini-DIN)

Pressure connection

Inside thread	G ¼ with O-Ring seal
	G ¼, sealed at back, DIN 3852, form E
	G ½, sealed at front
	G ½, sealed at back and manometer (combi)
Outside thread	¼ -18 NPT
	R ¼, DIN 2999
	M12x1.5, sealed at back, DIN 3852, form E
	M14x1.5, sealed at back, DIN 3852, form E

Installation arrangement

Unrestricted

Tests / Admissions

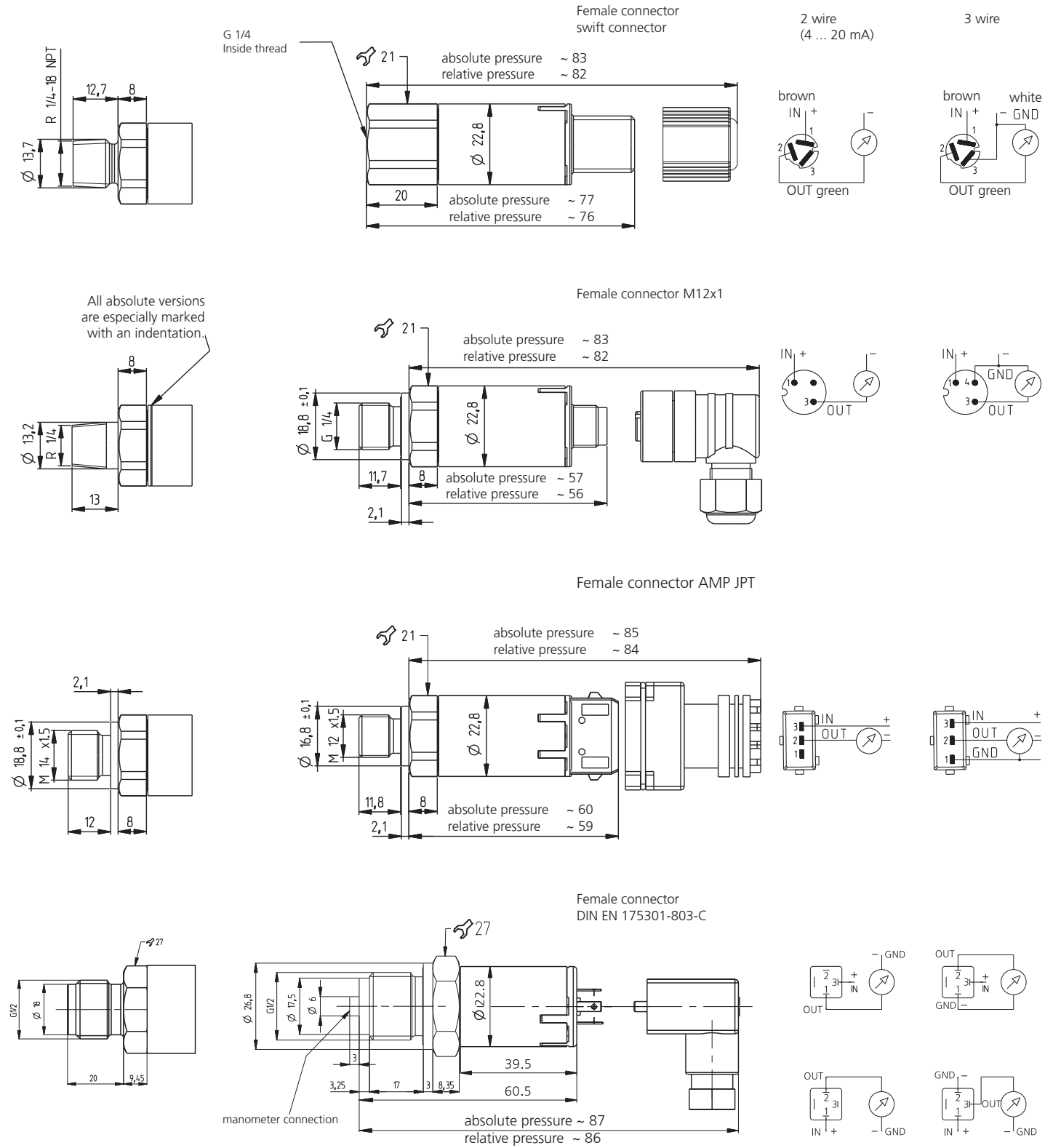
Electromagnetic compatibility	CE conformity acc. EN 61326-2-3
UL	acc. Standard 61010-1
Shock acc. IEC 60068-2-27	100 g, 11 ms half sine wave, all 6 directions. Free fall from 2 m on concrete (6x)
Constant shock acc. IEC 60068-2-29	40 g for 6 ms, 1000x all 3 directions
Vibration acc. IEC 60068-2-6	20 g, 2 ... 2000 Hz with amplitude ± 15 mm, 1 Octave/min. all 3 directions, 50 constant load

Weight

Version with inside thread	~ 85 g
Version with outside thread	~ 95 g

Packaging (Please state on order)

Single packaging in cardboard	accessories integrated
Multiple packaging in cardboard (25 pcs)	accessories integrated



Huba Control

FOR FINE PRESSURE AND FLOW MEASUREMENT

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