

Huba Control

OEM relative pressure transmitter Type 505

Type 505 pressure transmitters are particularly suitable for measuring water pressure rates in heating and industrial circular flow.

Due to partially automated manfacturing we are able to handle customer orders in high quantities.

Pressure range

0 ... 4 - 16 bar

- + Best price / performance ratio through:
 - electronic integrated in measuring element
 - optimised mounting concept
 - automatic production
- + Ideal for use as a control element, owing to small hysteresis
- + The measuring element includes the well proven ceramic technology of Huba Control AG

Pressure range Relative			0 4 – 16 bar
Operating conditions			
Medium			Liquids and not aggressive gases
		Medium	+2 +90 °C
Temperature		Ambient	+2 +85 °C
'		Storage	-30 +85 °C
Estandata accordand		≤4 bar	8 bar
Tolerable overload		> 4 bar	20 bar
		≤4 bar	12 bar
Rupture pressure		> 4 bar	25 bar
4-4			
Materials Case			Plastic thermoplast
,asc		Pressure connection	Fibre reinforced plastic
Askadalian in agent at with the	Live	Sensor	Ceramic Al ₂ O ₃ (96%)
Materialien in contact with the med	ium	Sealing material	EPDM (Ethylene propylene)
		Seating material	ЕРЫМ (Ештутепе ргоругепе)
Electrical overview			
Output	Power supply	Load	Current consumption 1)
0.5 3.5 V	8.5 30 VDC	> 10 kOhm / < 100 nF	< 7 mA
Ratiom. 10 70%	5 VDC ±5%	> 10 kOhm / < 100 nF	< 4 mA
Ratiom. 10 50%	5 VDC ±5%	> 10 kOhm / < 100 nF	< 4 mA
Polarity reversal protection			n is protected against crossover up to max. supply volta
	The product is designed exclusively for the	stallation in equipment.The customer is responsi	ble for CE conformity.
Dynamic response	The product is designed exclusively for the	stallation in equipment. I he customer is responsi	
Electromagnetic compatibility Dynamic response Response time Load cycle	The product is designed exclusively for the	tallation in equipment. The customer is responsi	<5 ms
Dynamic response Response time	The product is designed exclusively for the	tallation in equipment. The customer is responsi	
Dynamic response Response time .oad cycle Protection standard	The product is designed exclusively for the	tallation in equipment. I he customer is responsi	<5 ms
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Oynamic response Response time Load cycle Protection standard P 00	The product is designed exclusively for the	stallation in equipment. I he customer is responsi	<5 ms
Oynamic response Response time Load cycle Protection standard P 00	The product is designed exclusively for the	stallation in equipment. I he customer is responsi	< 5 ms < 50 Hz
Oynamic response Response time Load cycle Protection standard P 00	The product is designed exclusively for the	stallation in equipment. I he customer is responsi	< 5 ms < 50 Hz Standard
Protection standard Prossure connection	The product is designed exclusively for this	stallation in equipment. I he customer is responsi	< 5 ms < 50 Hz Standard Form 2 without orifice
Protection standard Prossure connection	The product is designed exclusively for the	stallation in equipment. I he customer is responsi	< 5 ms < 50 Hz Standard Form 2 without orifice Form 3
Protection standard Prossure connection	The product is designed exclusively for the		<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice
Protection standard Prossure connection	The product is designed exclusively for the	G 74	< 5 ms < 50 Hz Standard Form 2 without orifice Form 3
Protection standard Prossure connection	The product is designed exclusively for the	G 1/4 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice
Oynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting	The product is designed exclusively for the	G ¼ G ¾ G %	< 5 ms < 50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice material admission for portable water ≤ 85 °C
Oynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting	The product is designed exclusively for the	G½ G¾ G¾ G¾	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice
Oynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting	The product is designed exclusively for this	G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice
Oynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting	The product is designed exclusively for the	G½ G¾ G¾ G¾	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice
Pynamic response Itesponse time oad cycle Protection standard P 00 Pressure connection Connection plug fitting Outside thread	The product is designed exclusively for the	G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice
Oynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting Outside thread	The product is designed exclusively for the	G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice
Dynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting Dutside thread	The product is designed exclusively for the	G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice
Dynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting Dutside thread Electrical connection Connector RAST 2.5		G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice
Oynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting Outside thread Electrical connection Connector RAST 2.5 Installation arrangement		G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice
Dynamic response		G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice
Dynamic response Response time Load cycle Protection standard P 00 Pressure connection Connection plug fitting Dutside thread Electrical connection Connector RAST 2.5 Installation arrangement Recommended: Electrical connection		G 1/4 G 3/6 G 3/6 G 3/6 G 3/6 G 3/6	<5 ms <50 Hz Standard Form 2 without orifice Form 3 Form 4 without orifice without orifice without orifice without orifice without orifice without orifice with bedstop for plug value without orifice

Weight ~ 30 g

Packaging
Bulk cargo in cardboard boxes on Euro pallet (500 pcs.)

Parameter		Unit	
Tolerance zero point	max.	% fs	± 1.5
Tolerance full scale	max.	% fs	± 1.5
Resolution		% FS	0.1
Total of linearity, hysteresis			
and repeatability	max.	% fs	± 1.0
Long term stabilitiy acc. to DIN EN 60770		% fs	± 0.5
TC zero point 3)	typ.	% fs/10K	± 0.6 4)
TC sensitivity 3)	typ.	% fs/10K	± 0.15
Ratiometric error 5)	typ.	% fs	± 0.5

 $25\,^{\circ}\text{C}$, 45% RH, power supply 24 VDC / 5 VDC TC z.p. / TC s. 2 ... +80 $^{\circ}\text{C}$ Test conditions:

1) At nominal pressure 4) ≥10 bar = max. ±1.0% fs/10K

3) TC = Temperature coefficient

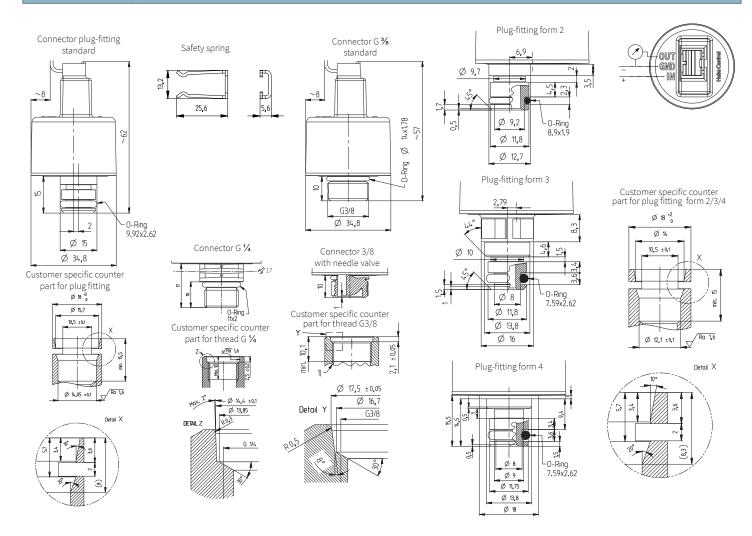
 $^{^{2)}}$ Ratiometric version only through the electrical connector mechanically protected. $^{5)}$ At ratiometric version only

			1	2	3	4	5
Order code selection	Order code selection table 505.			Χ	Χ	Χ	Χ
	0 4 bar		9	1	5		
	0 10 bar	material admission for drinking water ≤ 85 °C	9	3	0	7,B	2
Pressure range 1)	0 12 bar	material admission for drinking water ≤ 85 °C	9	3	В	7,B	
	0 16 bar	material admission for drinking water ≤ 85 °C	9	3	1	7,B	
	▲ Full scale signal at this pressur	e					
	Connection plug fitting standard				5	3	
	Connection plug fitting standard	without orifice			5	9	
	Connection plug fitting form 2	without orifice			5	С	
	Connection plug fitting form 3				5	1	
Pressure connection	Connection plug fitting form 4	without orifice			5	Α	
	Outside thread G 3/8				5	4	
	Outside thread G 3/8	material admission for drinking water ≤ 85 °C			5	5	
	Outside thread G 3/8	with needle valve			5	6	
	Outside thread G 3/8	without orifice				7	
	Outside thread G 3/8	with with needle valve without orifice			5	8	
	Outside thread G 1/4	without orifice				В	
	0.5 3.5 V	8.5 30 VDC (not possible with 0 10 bar)					0
Output / power supply	ratiom. 10 70%	5 VDC ±5% (not possible with 0 10 bar)					1
	ratiom. 10 50%	5 VDC ±5%					2

Accessories (Accessories supplied loose)	Order number
Safety spring for all plug connector	112442
Female connector RAST 2.5 with cable 1450 mm	103167
Calibration certificate	104551

AMP Connector 2)	Manufacturer's Part No.	Colour	For flexible wire	
	3-829868-3	grey	7 x 0.20 mm = 0.22 mm ² or	
	1-966194-3	beige	12 x 0.20 mm = 0.35 mm ² 7 x 0.25 mm = 0.35 mm ²	Connector with cable IN = red
				OUT = yellow GND = black

Dimensions in mm / Electrical connections



1) Other pressure ranges on request

²⁾ To be ordered separately from original manufacturer. Further information can be found in the manufacturer specification No. 114-18049

Huba Control



株式会社 クローネ

■カタログに掲載してある製品の色は印刷インキの関係上、実際とは異なる場合があります。

■製品のデザイン、仕様等などは、予告なく変更する場合があります。

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