

FOR FINE PRESSURE AND FLOW MEASUREMENT

OEM Relative pressure transmitter type 400

Pressure range 0 ... 10 – 100 mbar



The type 400 pressure transmitter, with its proven ceramic lever technology, has adjusted temperature compensated sensor signals and is available with a voltage output. The voltage output (VDC) is an amplified, linear signal suitable for direct processing in electronic control systems. The sensors are ideal for continuous level measurement in washing machines, dishwashers etc.

- Robust construction, sensor element has no contact with media
- Special design developed for large scale manufacture at an attractive price
- Fully automated manufacture, including in-line adjustment of zero point and full scale value
- Special snap mounting bracket for easy single handed mounting in sheet steel of varying thicknesses

Technical Overview							
Pressure range ¹⁾							
Relative						0 10 -	– 100 mbar
Operating conditions							
Medium							and neutral gases
Temperature				<u>/ledium / amb</u>	pient	0 +	
·			5	itorage		-10 +	
Tolerable overload						200 mb 500 mb	
Rupture pressure Leak rate							ar n³/h (Air)
						< 0.2 CI	
Materials in contact with the medium							
Cover						Polyprop	bylene
Diaphragm							plastic elastomer
						·	
Electrical overview							
Output / Power supply ²⁾			r	atiom. 10 7	70%	5 VDC ±	
Load							hm / < 10 nF
	al voltage with	50 kOhm loa	ad			< 3 mA	
Polarity reversal protection							ically protected
Electromagnetic compatibility The produ	lict is designed	exclusively fo	or installation	in equipment	. The custom	er is responsib	ble for CE conformity.
Dunamical response							
Dynamical response Response time						< 10 ms	· · · · · · · · · · · · · · · · · · ·
Load cycle						< 10 Hz	
						< 10 Hz	
Protection standard							
IP 00							
Electrical connections							
3-pole plug connector RAST 2.5							
Pressure connection							
Pipe Ø 6.2 mm							
Maximal instruction							
Mounting instruction	n horizontal (R	acommonda	tion) E		action and al	octrical connor	ctions downward
	n vertical (on r						higher than real pressure ³⁾
Mounting		equesty				el from 0.9 to	
Mounting					g in sheet ste		
Weight							
~ 17 g							
Packaging							
Cardboard boxes with blister pack inserts (35 pc	s)						
	·						
Ordering batches quantities / Transport volumes							
Pieces Execution	Length	n (cm)	Width (cm)	Heigh	t (cm)	Weight (kg)	Blister (35 pcs)
2520 12 boxes per Euro-pallet	120		80	93		103	72
210 1 box	59		39	26		6.9	6
							1
Accuracy							Linearity
Parameter	Unit	10 mbar	20 mbar	30 mbar	50 mbar	100 mbar	U out(V)
							3.5
Tolerance zero point ⁴⁾ max.		-	± 1.5	± 1.5	± 1.5	± 1.5	2.5
Tolerance at 0.5 mbarmax.Tolerance full scale 4)max.		± 1.5	-	- . 1 F	— . 1 Г	- . 1 E	2.0
Tolerance full scale 4) max. Resolution	% fs % fs	± 2.5 0.1	± 2.5 0.1	± 1.5 0.1	± 1.5 0.1	± 1.5 0.1	
Total of linearity, hysteresis	70 15	U. I	0.1	0.1	0.1	U. I	(0.5
iotar of infeatity, hysteresis					1		0.0

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Tolerance zero point 4)	max.	% fs	-	± 1.5	± 1.5	± 1.5	± 1.5	3.0
Tolerance at 0.5 mbar	max.	% fs	± 1.5	-	-	-	-	2.5
Tolerance full scale 4)	max.	% fs	± 2.5	± 2.5	± 1.5	± 1.5	± 1.5	15
Resolution		% fs	0.1	0.1	0.1	0.1	0.1	1.0
Total of linearity, hysteresis								0.5
and repeatability								0.0 0.3 mbar - (10/20/3
at 0.3 mbar (10 50 mbar) and 1 mbar (100	mbar)	% fs	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	1 mbar - (100 mb
Long term stability acc. to DIN IEC 60770		% fs	± 1.0	± 1.0	± 0.5	± 0.5	± 0.5	(10
TC zero point ⁵⁾	typ.	% fs/10K	± 0.2	± 0.2	± 0.2	± 0.2	± 0.2	
TC zero point ⁵⁾	max.	% fs/10K	± 0.4	± 0.4	± 0.4	± 0.4	± 0.4	0.5
TC sensibility 5)	max.	% fs/10K	± 0.2	± 0.2	± 0.2	± 0.2	± 0.4	0.0
Positional error ⁴⁾		mbar	~ 0.3	~ 0.3	~ 0.3	~ 0.3	~ 0.3	<u> </u>
Ratiometric error	typ.	% fs	0.5	0.5	0.5	0.5	0.5	
Ratiometric error	max.	% fs	1.0	1.0	1.0	1.0	1.0	

25 °C, 45% rF, Power supply 5 VDC TK0 / TKE: 0 ... +70 °C Test conditions:

Order code selec	tion table	Order number			
Pressure range	0 10 mbar	4 0 0 . 9 1 1 0	0		
Ŭ,	0 20 mbar	4 0 0 . 9 2 1 0	0		
	0 30 mbar	4 0 0 . 9 3 1 0	0		
	0 50 mbar	4 0 0 . 9 5 1 0	0		
	0100 mbar	4 0 0 . 9 7 1 0	0		
	▲ Full scale signal at these pressure				

Accessories ¹⁾ Connector RAST 2.5 with cable 30 cm 0rder number Connector RAST 2.5 with cable 10 cm 111668 Connector RAST 2.5 with cable 110 cm 101817 Connector RAST 2.5 with cable 150 cm 112282 Calibration certificat 104551 AMP Connector ²⁾ Manufacture's Part No. Colour 3-829868-3 grey 7 x 0.20 mm = 0.22 mm² or

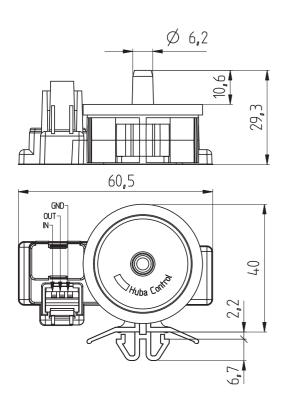
beige

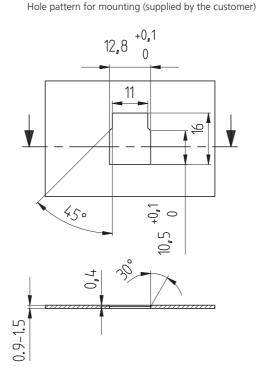
3-829868-3 1-966194-3

for flexible wire	
7 x 0.20 mm = 0.22 m	m² or
12 x 0.20 mm = 0.35 m	m²
7 x 0.25 mm = 0.35 m	m²

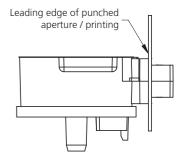
Connector with cable IN = red OUT = yellow GND = black

Dimensions in mm / Electrical connections









¹⁾Accessories supplied loose