





# OEM Relative and differential pressure transmitter

## Туре 403

Type 403 pressure transmitters sense ultra-fine changes in gas pressure for use in air / gas ratio control systems. All materials used are compatible with flammable gas.

When used in combination with our type 401 pressure transmitter, the optimum air / gas ratio can be achieved.

## Pressure range 0 ... 3 – 8 mbar

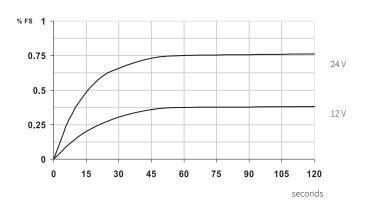
- + Special development for optimize of combustion mixture in gas boilers
- + With the special diaphragm geometry inherently stable due to homogeneous manufacture
- + Ideal dimensioning for high sensitivity and with long term stability
- + Excellent repeatability even in the lower pressure range (< 20 Pascal)

Technical overview								
Pressure range								
Relative and differential				0 3 – 8 mba	r			
Operating conditions								
Medium				Air, neutral ar	id burnable gases			
Temperature			Medium / ambient	0 +70 °C				
Temperature			Storage	-40 +70 °C				
Tolerable overload on one side				25 mbar				
					rt period at room temperature			
Rupture pressure Leak rate				200 mbar	, at measuring range			
_eak late				< 3 CITI / IT (AII)	, at measuring range			
Materials in contact with the mediu	m							
Case				Polycarbonat				
Diaphragm					mission for burnable gas)			
Sensor				Ceramic Al <sub>2</sub> O <sub>3</sub>				
Electrical overview								
Dutput				0.5 4.5 V				
Power supply				10.4 18 VDC	1)			
oad				> 15 kOhm (to	GND)			
Current consumption	At nominal voltage withou	ut load		< 8 mA				
Polarity reversal protection				Mechanically	protected			
Dynamic response								
Response time				< 10 ms				
oad cycle				< 10 Hz				
Protection standard				Protection cl	255			
IP 00								
= 1								
Electrical connections B pole connector RAST 2.5								
Pressure connection								
Pipe Ø 6.2 mm								
Iounting instruction	D: 1 1/D	D.						
nstallation arrangement	Diaphragm horizontal (Re Diaphragm vertical (on red		Presssure connections faci Pressure connections later		and actual processo			
	Diaphragin vertical (offree	quest)	Snap mounting in sheet ste		ow actual pressure			
lounting			Mounting bracket type A / t					
Tests / Admissions				AE 44445-1				
DVGW					59 (DVGW) acc. DIN EN 1854			
as appliance directive				2016/426/EG				
Veight								
Vithout accessories				~ 45 g				
Packaging Cardboard boxes with blister pack inse	erts (returnable).							
l.	\$							
Ordering batches quantities / Trans								
Pieces Varaint		gth (cm) Width (cm)	Height (cm)	Weight (kg)	Blister (20 pcs)			
1440 12 Box on euro-pale			93 26	134	72			
120 1 Box	59	39	20	9.5	6			

#### Accuracy

Parameter		Unit	
Tolerance zero point <sup>2)</sup>	max.	% fs	± 0.5
Tolerance full scale 2)	max.	% fs	-1.5 /+0.5
Resolution		% fs	0.1
Total of linearity,			
hysteresis and repeatability	max.	% fs	± 0.3
Long term stability acc. to DIN EN 60770		% fs	± 1.0
TC zero point 3)	typ.	% fs/10K	± 0.2
TC zero point 3)	max.	% fs/10K	± 0.3
TC sensitivity <sup>3)</sup>	typ.	% fs/10K	± 0.1

#### Signal drift



Pressure and flow

 $^{\rm 2)}$  For changing diaphragm position from horizontal to vertical, approx. -0.13 mbar.

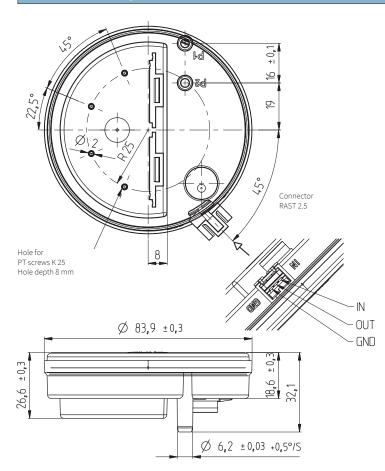
Order code selection	n table	Order number								
	0 3 mbar	4	0	3		9	3	0	0	0
	0 5 mbar	4	0	3		9	5	0	0	0
Pressure range	08 mbar ▲ Full scale signal at these pressure	4	0	3		9	8	0	0	0

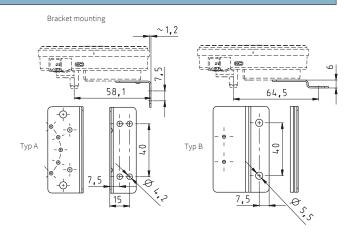
Accessories (supplied loose)	Order number
Bracket type A	100295
Bracket type B	100098
Special screws for fastening transmitter to bracket (2 screws per transmitter required)	102976
Orifice for pulsed pressure	100251
Connector with cable RAST 2.5 30 cm	111668
Connector with cable RAST 2.5 110 cm	101817
Connector with cable RAST 2.5 150 cm	112282
Calibration certificate	104551

AMP connector <sup>1)</sup>	Manufacture's Part No.	Colour	for flexible wire	
	3-829868-3	grey	7 x 0.20 mm = 0.22 mm <sup>2</sup> or	
			12 x 0.20 mm = 0.35 mm <sup>2</sup>	
	1-966194-3	beige	7 x 0.25 mm = 0.35 mm <sup>2</sup>	
				Connector with cable

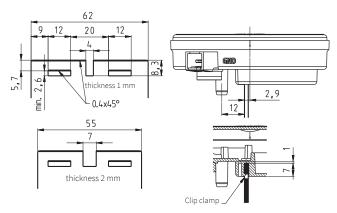


Dimensions in mm / Electrical connections





Direct mounting onto armature (fittings)



Other dimensions as per «Thickness 1 mm»







株式会社 クローネ

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 執品のデザイン、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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