



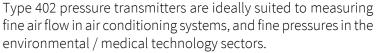
In Proud Partnership with Huba Control
PAQUIN
SENSORS

For technical support, sales, & distribution within the USA & Canada

www.paquin.com | (800) 831-8217 | paquinsensors@paquin.com

Relative and differential pressure transmitter

Type 402



Individually ranged sensors ensure optimum accuracy and long term stability of measurement. Location is quick and easy, either via a mounting plate or directly onto a PCB.



Pressure range

0 ... 3 - 50 mbar

- + Attractive price / performance ratio
- + Excellent synergy of diaphragm technology and ceramic elements
- + Special adapter for top-hat rail mounting
- + Direct pcb mounting with simple snap-on system

echnical Overview		
ressure range		
elative and differential		0 3 – 50 mbar
perating conditions		
edium		Air and neutral gases
	Medium / ambient	0 +70 °C
emperature	Storage	-30 +70 °C
olerable overload		100 mbar
Rupture pressure	at room temperature	200 mbar
There bressure	at 70 °C	150 mbar
aterials in contact with the medium		
ase construction	Polycarbonate (PC) / Polyamide	(PA)
Diaphragm		Silicone
ensor		Ceramic Al ₂ O ₃ (96%)
lectrical overview		
Output		0.5 4.5 V
Power supply		10.2 33.0 VDC
oad		> 15 kOhm (to GND)
urrent consumption		< 8 mA
olarity reversal protection	Connector and pcb version	mechanically protected
ectromagnetic compatibility	The product is designed exclusively for installation in equipment. The customer	is responsible for CE conformity.
ynamic response esponse time		< 10 ms
oad cycle		< 10 Hz
rotection standard		
P 00		
Electrical connections		
olderable pin in circuit board		
pole onnector RAST 2.5		
dapter plate		Mounted and soldered
Pressure connection		
lipe Ø 6.2 mm		
Nounting instruction		
	Diaphragm vertical	Presssure connections facing downward
nstallation arrangement	Diapgragm horizontal	Pressure connection P1 upwards
	100	Snap fitting 1)
		Adapter
Mounting		Mounting bracket

Weight ~ 28 g

Parameter		Unit	0 3 mbar	0 5 mbar	0 10 mbar	0 30 mbar	0 50 mbar
Tolerance zero point 2)	max.	% fs	± 0.9	± 0.9	± 0.9	± 0.9	± 0.9
Tolerance full scale 2)	max.	% fs	± 1.3	± 1.3	± 1.3	± 0.7	± 0.7
Resolution		% fs	0.1	0.1	0.1	0.1	0.1
Total of linearity, hysteresis and repeatability	max.	% fs	± 1.0	± 1.0	± 0.6	± 0.6	± 0.6
Long term stability acc. to DIN EN 60770		% fs	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
TC zero point ³⁾	typ.	% fs/10K	± 0.2	± 0.2	± 0.2	± 0.2	± 0.2
TC zero point ³⁾	max.	% fs/10K	± 0.4	± 0.4	± 0.4	± 0.4	± 0.4
TC sensitivity 3)	typ.	% fs/10K	± 0.3	± 0.3	± 0.2	± 0.2	± 0.2
TC sensitivity ³⁾	max.	% fs/10K	~ 0.6	~ 0.5	~ 0.4	~ 0.4	~ 0.4

 $25\,^{\rm o}$ C, 45% RH, power supply 12 VDC TC z.p. / TC s. 0 ... +70 $^{\rm o}$ C Test conditions:

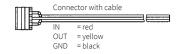
Packaging
Single packaging in cardboard boxes
Multiple packaging in cardboard boxes with blister pack inserts

(25 pcs)

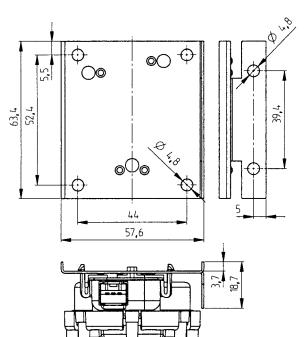
		1	2	3	4	5	6	7
Order code selection table 402.		Χ	Х	Χ	Χ	Χ	Χ	Χ
	0 3 mbar	9	1					
Pressure range ¹⁾	0 5 mbar	9	2					
	0 10 mbar	9	3					
	0 30 mbar	9	4					
	0 50 mbar	9	5					
	▲ Full scale signal at these pressure							
Adjusting position 2)	Diaphragm vertical			0				
	Diaphragm horizontal			1				
Diaphragm	Silicone				0			
Output / power supply	0.5 4.5 V 10.2 33 VDC					0		
	Print version						1	
Electrical connection	Connector version Rast 2.5						2	
	Print version, mounted and soldered on adapter plate						3	
Pressure connection	Pipe Ø 6.2 mm							1

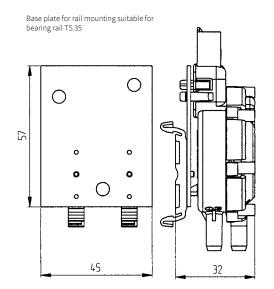
Accessories (supplied loose)	Order number			
Fixing screw for wall thickness 1 – 2 mm	Length of screw 6 mm (min. required 2 pcs)	102976		
Fixing screw for wall thickness 4.1 – 6 mm	Length of screw 10 mm (min. required 2 pcs)	112213		
Connector Rast 2.5 with cable (110 cm)		101817		
Base plate for rail mounting suitable for bearing rail	110656			
Bracket		108222		
Calibration certificate	104551			

AMP connector 4)	Manufacturer's Part No.	Colour	for flexible wire
	3-829868-3	grey	$7 \times 0.20 \text{ mm} = 0.22 \text{ mm}^2 \text{ or}$
			$12 \times 0.20 \text{ mm} = 0.35 \text{ mm}^2$
	1-966194-3	beige	$7 \times 0.25 \text{ mm} = 0.35 \text{ mm}^2$



Mounting Bracket



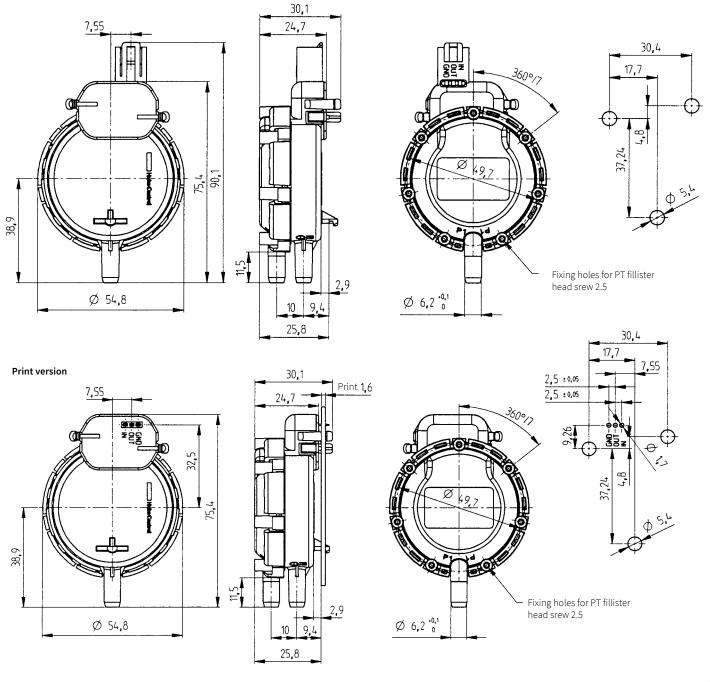


¹⁾ Other pressure range on request

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

³⁾ To be ordered separately from original manufacturer. Further information can be found in the manufacturer specification No. 114-18049.

Connector version





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