



# Relative and differential pressure transmitter Type 652

Type 652 pressure transmitters are ideally suited to the continuous monitoring of liquid or level, (especially in heating technology).

Their especially rugged construction allows a single port overpressure of up to 20 bar, depending upon pressure range.

## **Pressure range** 0 ... 50 – 1000 mbar

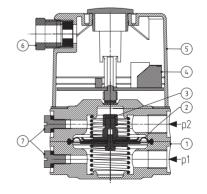
- + High overpressure safety margin 10/20 bar on P1
- + 3 standardised output signals for direct Processing in control / monitoring systems
- + Functionally simple, rugged mechanics with high operating reliability
- + Attractive price / performance ratio
- + Also for slightly aggressive liquids and gases

ressure range		0 50 1000 1
elative and differential		0 50 – 1000 mbar
perating conditions		
edium		Liquids and neutral gases
	NBR-based	0 +80 °C
	FPM	-10 +80 °C
emperature	EPDM	-10 +80 °C
The Court	Q (Silicone)	-40 +80 °C
	Storage	-40 +80 °C
olerable overload and max. tolerable system pressure (P1 > P2)	≤ 200 mbar	10 bar 20 bar
upture pressure	≥ 500 mbar	30 bar
present present		30 501
terials in contact with the medium		
		NBR-based
iaphragm		EPDM
napinagin		FPM Siliaan
		Silicon
		Anodized aluminium
se		Brass shomies nickel plated
		Brass chemical nickel-plated X14CrMoS17 1.4104
		X5CrNi18-10 1.4301
ther components		X10CrNi18-8 1.4310
		X2CrNiMoN 1.4462
		Steel category A2 for screws
		Polyacetate-C, Polyamide
ctrical overview		
		0 10 V
ıtput (3 wire)		0 20 mA 4 20 mA
wer supply		20 30 VDC / 24 VAC +15% / -10%
мет заррту	Current load	≤ 300 Ohm
ad	Voltage load	≥ 10 kOhm
	0 10 V	35 mA
urrent consumption	0 20 mA	max. 55 mA
inent consumption	4 20 mA	max. 55 mA
plarity reversal protection	Short circuit proof and with p	
ynamic response esponse time		< 10 ms
pad cycle		< 10 Hz
rotection standard		
ith plastic cover (PG9)		IP 65
ectrical connection		
rrew terminals		
(01 - 02)		
ressure connection (P1 > P2) side thread		G 1/8
	d steel with NBR seal for pipe (Ø 6 mm)	G 1/8
	tel plated for tube(Ø 6 mm)	G 1/8
	and processing a many	<u> </u>
nstallation arrangement		
		media vent screw up, i.e. pressure connection down

Electromagnetic compatibility CE conformity acc. EN 61326-2-3

Weight
With aluminium pressure case
With brass pressure case 394 g - 1030 g

Packaging Single packaging in cardboard



#### Legend to cross-section drawing

- Pressure case Diaphragm Permanent magnet Electronics 3

- 6 PG9 Union
  7 Vent
  P1 Higher pressure / lower vacuum
  P2 Lower pressure / higher vacuum

#### Accuracy

% fs % fs ± 1.0 ± 1.0 Tolerance zero point Tolerance full scale max. max. Resolution
Total of linearity,
Hysteresis and repeatability
TC zero point <sup>1)</sup>
TC sensitivity <sup>1)</sup>
TC sensitivity <sup>1)</sup> % fs 0.2 % fs ± 1.5 max. % fs/10 K % fs/10 K % fs/10 K ± 0.8 max. ± 0.3 typ. max. + 0.6

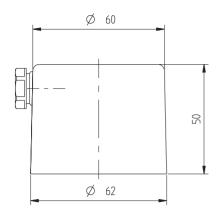
Test conditions: 25 °C, 45% RH, power supply 24 VDC

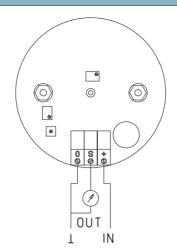
		1_	2	3	4	5	6	7	8	9	10	11
Order code selection table 652.		2. X	Х	Х	Х	Х	Χ	Χ	Х	Х	Х	Χ
Pressure ranges <sup>2)</sup>	0 50 mbar	9	0									
	0 100 mbar	9	1									
	0 200 mbar	9	2									
	0 500 mbar	9	3									
	0 1000 mbar	9	4									
Output 3)	0 10 V			0								
	0 20 mA			1								
	4 20 mA			4								
Linearity	± 1.5% FS				1							
Power supply (IN)	20 30 VDC / 24 VAC +15% / -10%					0						
Electrical connection	Screw terminals (Protection class with cover IP 65)						0					
Pressure connections	Inside thread G 1/8							0				
	Straight screwed connection G 1/8 for pipe (Ø 6 mm)							1				
	Screwed socket G 1/8 for tube (Ø 6 mm)							2				
Pressure case	Anodized aluminium black								0			
	Brass								1			
	Nickel-plated brass								2			
Diaphragme	NBR-based									0		
	FPM									1		
	EPDM									2		
	Q (Silicon)									3		
Mounting	Without mounting bracket										0	0
	With mounting bracket type A										0	1
	With mounting bracket type B										0	2

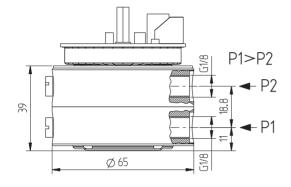
Accessories 4)		Order number	
Mounting bracket type A		100996	
Mounting bracket type B		100997	
Straight screwed connection G 1/8	for pipe (Ø 6 mm)	105860	
Screwed Socket G 1/8	for tube (Ø 6 mm)	108239	
Calibration certificate		104551	

3/5

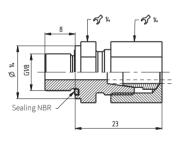
### Dimensions in mm / Electrical connections



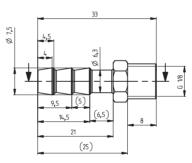




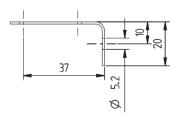
Straight screwed connector G  $\frac{1}{8}$ 



Screwed Socket G 1/8

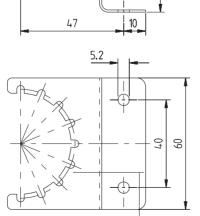


Mounting bracket type A



07 9

Mounting bracket type B



# Huba Control



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