



## 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.

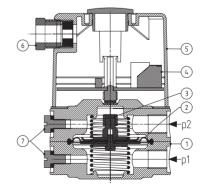
## Pressure range 0 ... 50 – 1000 mbar

- + 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

lative and differential		0 50 – 1000 mbar
auto and americinal		5 50 1000 HIDAI
perating conditions		
edium		Liquids and neutral gases
	NBR-based	0 +80 °C
	FPM	-10 +80 °C
macratura	EPDM	-10 +80 °C
mperature	Q (Silicone)	-40 +80 °C
	Storage	-40 +80 °C
larable avades dend may talerable evatam areasure (B1 > B2)	<u>≤</u> 200 mbar	10 bar
lerable overload and max. tolerable system pressure (P1 > P2)	≥ 500 mbar	20 bar
pture pressure		30 bar
terials in contact with the medium		
terms in contact that the meanant		NBR-based
		EPDM
aphragm		FPM
		Silicon
		Anodized aluminium
se		Brass
		Brass chemical nickel-plated
		X14CrMoS17 1.4104
		X5CrNi18-10 1.4301
har companante		X10CrNi18-8 1.4310
ner components		X2CrNiMoN 1.4462
		Steel category A2 for screws
		Polyacetate-C, Polyamide
ctrical overview		
ctrical overview		0 10 V
tput (3 wire)		0 20 mA
tput (3 wile)		4 20 mA
ver supply		20 30 VDC / 24 VAC +15% / -10%
	Current load	≤ 300 Ohm
d	Voltage load	≥ 10 kOhm
	0 10 V	35 mA
rent consumption	0 20 mA	max. 55 mA
chi consumption	4 20 mA	max. 55 mA
arity reversal protection	Short circuit proof and with	polarity reversal protection
namic response		
sponse time		< 10 ms
d cycle		< 10 Hz
tection standard		
th plastic cover (PG9)		IP 65
ectrical connection		
rew terminals		
essure connection (P1 > P2)		
ide thread		G 1/8
raight screwed connection Zinc pl	lated steel with NBR seal for pipe (Ø 6 mm)	G 1/8
	nickel plated for tube(Ø 6 mm)	G 1/8
stallation arrangement restricted. Recommendation:The transmitter is calibrated in the factory with the	and the second control of the second control of the second	

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

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

#### Accuracy

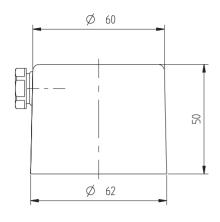
% fs % fs ± 1.0 ± 1.0 Tolerance zero point Tolerance full scale max. max. Resolution
Total of linearity,
Hysteresis and repeatability
TC zero point <sup>1)</sup>
TC sensitivity <sup>1)</sup>
TC sensitivity <sup>1)</sup> % fs 0.2 % fs ± 1.5 max. % fs/10 K % fs/10 K % fs/10 K ± 0.8 max. ± 0.3 typ. max.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

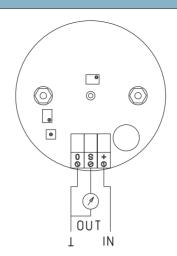
Test conditions: 25 °C, 45% RH, power supply 24 VDC

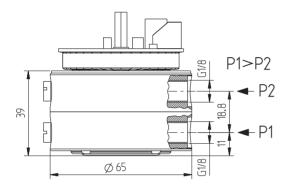
		1	2	3	4	5	6	7	8	9	10	11
Order code sele	ction table 65	2. X	Х	Х	Х	Х	Х	Х	Χ	Х	Χ	Χ
	0 50 mbar	9	0									
	0 100 mbar	9	1									
Pressure ranges 2)	0 200 mbar	9	2									
	0 500 mbar	9	3									
	0 1000 mbar	9	4									
Output 3)	0 10 V			0								
	0 20 mA			1								
	4 20 mA			4								
Linearity	± 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	

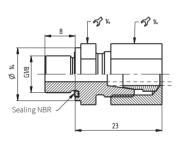
### Dimensions in mm / Electrical connections



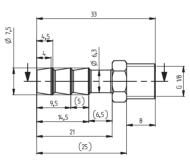




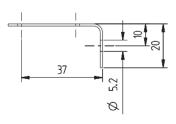
Straight screwed connector G  $\frac{1}{8}$ 



Screwed Socket G 1/8

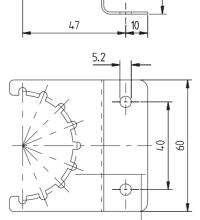


Mounting bracket type A



07 9

Mounting bracket type B



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