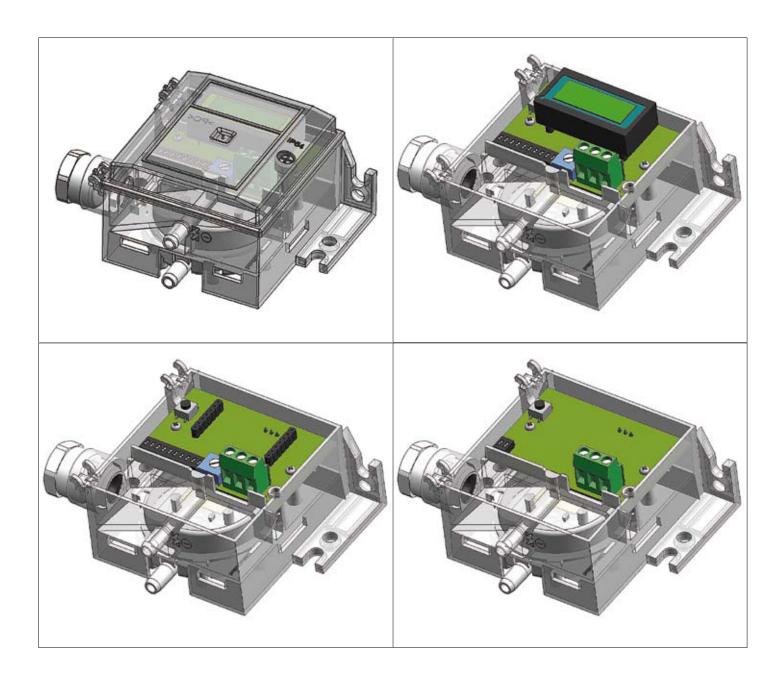
# P003 (699)

Relative, vacuum- and differential pressure transmitter -1  $\cdots$  +1 mbar / 0  $\cdots$  0.3 - 50 mbar

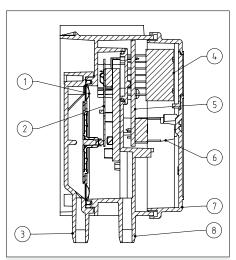




#### Technical overview

The differential pressure transmitters of the Type 699 series incorporate a proven ceramic fulcrum lever technology.

They deliver adjusted and temperaturecompensated sensor signals, available as standard voltage or current outputs. They are ideal for registering low air flow in air conditioning systems and for the measurement of fine pressures in laboratory, environmental and clean-room applications.



# Legend to cross-section drawing

- 1 Diaphragm
- 2 Sensor element
- 3 P1 Pressure connection (higher pressure / minor Vacuum)
- 4 LCD-Display (option)
- 5 Amplified electronics
- 6 Connection terminals
- 7 Cover
- 8 P2 Pressure connection (higher pressure / major Vacuum)

## The distinct advantages

- Compact construction
- Fast, easy mounting. Housing incorporates integral bracket for wall or ceiling mounting. Snap-on cover with a single screw
- Available with LCD display = additional configurations all version acording to order code selection table
- Filter function
- Adjustable measurement range
- Switchable output signals
- Switchable response curve (linear or rootextracted)
- Zero point resettable (reset button)
- Full scale adjustable
- Attractive price / performance ratio
- Application at over and low pressure range possible

Medium Air and neutral gases

# Pressure range ±0.5 mbar ±1 mbar

0 ... 1 – 50 mbar

# Tolerable overload on one side

Application at over pressure range 100 mbar auf P1, 4 mbar auf P2

Application at low pressure range -4 mbar auf P1, -100 mbar auf P2

## Rupture pressure

2 x overload at ambient temperature 1.5 x overload at 70 °C

## Setting range

Zero point resettable by reset button

Full scale adjustable by DIP-Switch and additional individual adjustable with Turbopoti

## Materials in contact with medium Housing: Polycarbonate PC

Diaphragm: Silicone Sensor: Al<sub>2</sub>O<sub>3</sub> (96%) / glass

## Temperature

0 ... +70 °C Medium and ambient Storage -10 ... +70 °C No condensation

## Output

Power supply 3-wire 0 ... 10 V 13.5... 33 VDC / 24 VAC ±15% 0 ... 20 mA 13.5... 33 VDC / 24 VAC ±15%

## 2-wire

4 ... 20 mA 8.0 ... 33 VDC

4 ... 20 mA 13.5... 33 VDC / 24 VAC ±15%

Additional adujustable by software (with LCD-Display only) 0...5V 6.5... 33 VDC / 24 VAC ±15%

#### Load

3-wire 0 ... 10 V 0 ... 20 mA 4 ... 20 mA < 500 Ohm

2-wire 4 ... 20 mA

# Tests / Admissions

UL CE conform

# Weight

vergite	
Vith display	approx.100 g
Vithout display	approx. 90 g

Packaging Single packaging in cardboard

#### Current consumption At nominal pressure

At nominal pressure	
3-wire	
0 10 V	< 10 mA
0 20 mA	< 30 mA
4 20 mA	< 30 mA
2-wire	
4 20 mA	20 mA
Backlight LCD-Display	30 mA

#### Dynamic response

Suitable for dynamic measurer	nents
Response time	< 20 ms
Load cycle	< 10 Hz

# Filter

Filter response time switchable by 0.2 / 1 / 5 / 20 seconds

## **Electrical connection**

Screw terminals for wire and stranded conductors up to 1.5 mm<sup>2</sup>, cable gland with built-in strain relief PG11

## Polarity reversal protection

Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.

# Protection standard

Without cover

With cover

IP 00 IP 54 or IP 65

Pressure connections Connection pipe  $\emptyset$  6.2 mm

#### Installation arrangement

Recommended and factory adjustment: Vertical, with pressure connections downwards

Mounting Mounting bracket (integrated in case)

## Display

> 10 kOhm

< 500 Ohm

< supply voltage - 8 V 0.02 A [Ohm]

LCD display doublespaced - per 8 digit alphanumeric (3-wire with backlight)

#### Adjustability

Optional version self configurable serveral parameter (see order code selection table)

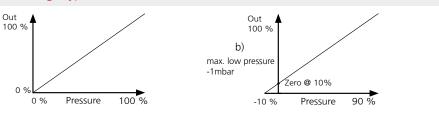
With display	
Without display	

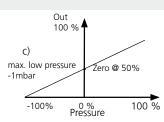
# Accuracy

Parameter		Unit	±0.5 mbar	1 mbar	3 mbar	5 mbar	10 - 50 mbar
Tolerance zero point <sup>1)</sup>	max.	% fs	±1.0	±1.0	±0.7	±0.7	±0.7
Tolerance full scale <sup>1)</sup>	max.	% fs	±1.0	±1.0	±0.7	±0.7	±0.7
Resolution		% fs	±0.2	±0.2	±0.1	±0.1	±0.1
Total of linearity,							
hysteresis and repeatability	max.	% fs	±1.0	±1.0	±1.0	±1.0	±0.6
Logn therm stability acc. to DIN EN	60770	% fs	±1.0	±1.0	±1.0	±1.0	±1.0
TC zero point <sup>2)</sup>	typ.	% fs/10K	±0.2	±0.2	±0.2	±0.1	±0.1
TC zero point <sup>2)</sup>	max.	% fs/10K	±1.0	±1.0	±0.5	±0.4	±0.4
TC sensitivity <sup>2)</sup>	typ.	% fs/10K	±0.3	±0.3	±0.2	±0.1	±0.1
TC sensitivity 2)	max.	% fs/10K	±0.6	±0.6	±0.5	±0.5	±0.2
no additional root-extracted errors	Test	conditions: 2	25 °C, 45% rF, Powe	er supply 24 VDC	TC z.p. / TC z.p	0. 0 70 °C	

# Pressure range types

a)



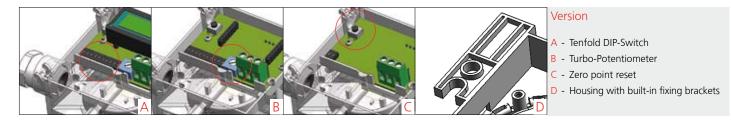


# Order code selection table

Order code selection	table					6	99.	Х	Х	Х	Х	Х	Х	Х	Х	Х	$\rangle$
Pressure range switchable	(see pressure rar	nges)						9									
2	Pressure range of 0 % bis 100% FS Diagramm a)							1									
	Pressure range of	of -10 % bis 90	)% FS	Diagramm	ו b)				2								
	Pressure range of	of -100 % bis 100	)% FS	Diagramm	ι c)				3								
Pressure range (switchable)	mbar (hPa)	Ра	mmWS	inH,O													
(all pressure ranges for low	0 0.3/ <b>0.5</b>	30/ <b>50</b>	3/ <b>5</b>	0.1 <b>/0.2</b>	minimal operating pre	essure =	-50 Pa			0							
pressure applicable, too)	0 0.3/0.5/ <b>1</b>	30/50/ <b>100</b>	3/5/10	0.1/0.2/0.3	minimal operating pre	ssure =	-100 Pa			1							
	0 0.5/1/ <b>3</b>	50/100/ <b>300</b>	5/10/ <b>30</b>	0.3/0.5/ <b>1</b>	minimal operating pre	essure =	-50 Pa			2							
	0 1/3/ <b>5</b>	100/300/ <b>500</b>	10/30/ <b>50</b>	0.5/1/ <b>2</b>	minimal operating pre	essure =	-50 Pa			3							
	0 3/5/ <b>10</b>	300/500/ <b>1000</b>	30/50/ <b>100</b>	1/2/ <b>3</b>	minimal operating pre	essure =	-50 Pa			4							
	0 5/10/ <b>16</b>	500/1000/ <b>1600</b>	50/100/ <b>160</b>	2/3/ <b>5</b>	minimal operating pre	essure =	-50 Pa			5							
	0 10/16/ <b>25</b>	1000/1600/ <b>2500</b>	100/160/ <b>250</b>	3/5/ <b>10</b>	minimal operating pre	essure =	-50 Pa			6							
	0 16/25/ <b>50</b>	1600/2500/ <b>5000</b>	160/250/ <b>500</b>	5/10/ <b>20</b>	minimal operating pre	essure =	-50 Pa			7							
Unit of pressure	mbar										0						
	hPa										4						
	Ра										2						
	kPa										5						
	mmWS										6						
	inH <sub>2</sub> O										3						
- Pressure ranges in grades (version	dual DIP-Switch; with	nout Display)				_	Ac	ljust	abili	tv 1	1						
	,	o-Poti I output signals I I	Filter (OIT / TS) Tresp	onse curve (intee	i / loot extracted/			Adj	usta	bilit	ty 2	2					
(Version tenfold DIP-Switch; witho	out Display) s adjustable with Turbo-	-Poti l pressure units l pre	essure range charact	er l output signa	ls; additional 0 5V				usta. Adju		-						
(Version tenfold DIP-Switch; without - Pressure ranges in grades; stepless Filter (off / 0.2s / 1s / 5s / 20s) I res	but Display) 5 adjustable with Turbo- 5 sponse curve (linear / ro	-Poti l pressure units l pre	essure range charact (off / 5s / on) (Versi	er I output signa on tenfold DIP-Sv	ls; additional 0 5V						-			0			1
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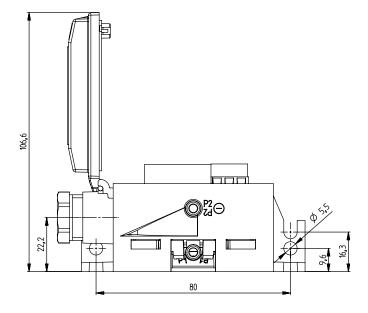
## Accessories

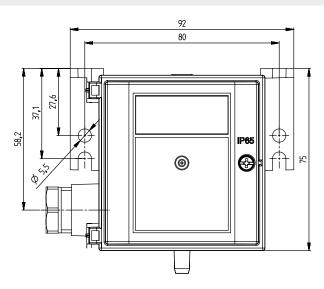
Connection kit for vent duct (metal), 90° angled Connection kit for vent duct (plastic), straight DIN-rail mounting adaptor	including tube 2 m long (Set 1) including tube 2 m long (Set 2)		Order number 104312 100064 112854	- 🐔	Switches —
<sup>1)</sup> For changing diaphragm see "Installation arrangement"		<sup>2)</sup> TC = Temperature coefficient			www.switches.co.za

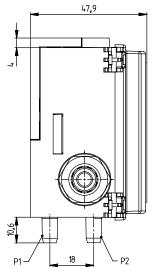


Dimensions in mm

Electrical connections







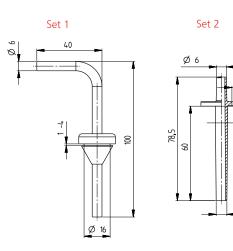






Universal-operating 2 and 3 wire





Ø 3,4

Ø 16

Ø 6,5

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

## DIN-rail mounting adapter

