

# H 01 pressure transmitter

## Overview

- for absolute, relative or differential pressure
- Typ: **Voltage output**
- Pressure range from 20 to 10000 hPa
- Temperature compensation 0 to 70°C (32 to 158°F)
- for dry, non-aggressive gases
- inkl. reverse polarity protection
- **PIN-compatibility with 140PC / 160PC series**
- Individual adjustment possible
- **other pressure ranges on request**

## Application

- barometrical applications
- pressure monitoring
- heating - ventilation - air conditioning
- medical engineering
- process automation
- safety technology
- industrial process and control



## Spezifikation <sup>1</sup>

Performance		Min.	Typ.	Max.	Note
Pressure Range	Typ A (dif./rel.)	20		10000	hPa <sup>2 3</sup>
	Typ B (abs.)			1000	hPa <sup>3</sup>
Pressure overload	Code 003 / 01			345	hPa
	Code 05			689	hPa
	Code 15			4134	hPa
	Code 30			6201	hPa
	Code 100 / 150			13780	hPa
Linearity BSL			0,1	0.5	% FS <sup>5</sup>

Environment		Min.	Typ.	Max.	Note
Compensated range		0		+70	°C
Operating temperature range		-25		+85	°C
Storage temperature range		-40		+125	°C
Temperature drift Offset			0.2	1.0	% FS <sup>6</sup>
Temperature drift Fullscale			0.5	1.0	% FS <sup>6</sup>
Dependence supply Voltage			0.01		% FS/V

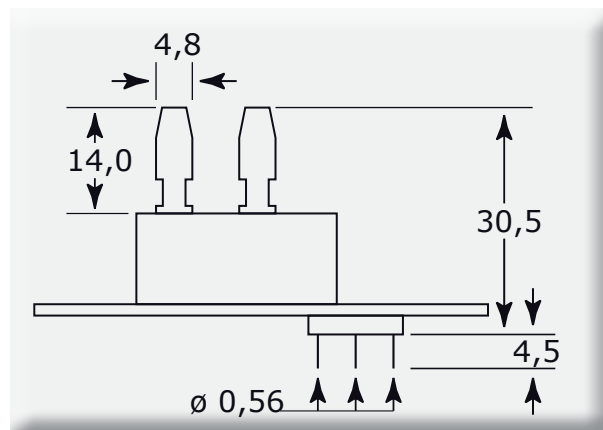
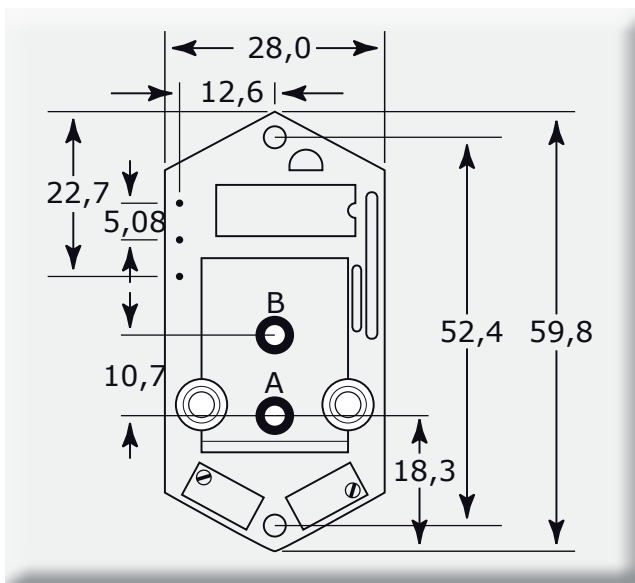
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Electronics		Min.	Typ.	Max.	Note
Supply voltage		8	12	30	V <sup>4</sup>
Output	Option A	0.5		4.5	V
	Option B	1		6	V
	Option C	0.1		10.1	V <sup>4</sup>
	Option D	0.1		5.1	V
	Option E	1		5	V
Current output				10	mA
Current consumption		0.8	1.0	1.2	mA
Adjustment Offset				±50	mV <sup>3 4</sup>
Adjustment Offset	Option C			±100	mV <sup>4</sup>
Adjustment Fullscale				±50	mV <sup>4</sup>
Adjustment Fullscale	Option C			±100	mV <sup>4</sup>
Reverse polarity protection			Yes		

Mechanics		Note		
Pressure connections		see picture		
Electrical connections		see picture		
Wight			0.016	kg
Size (L x B x H)		59.8	28.0	35.0

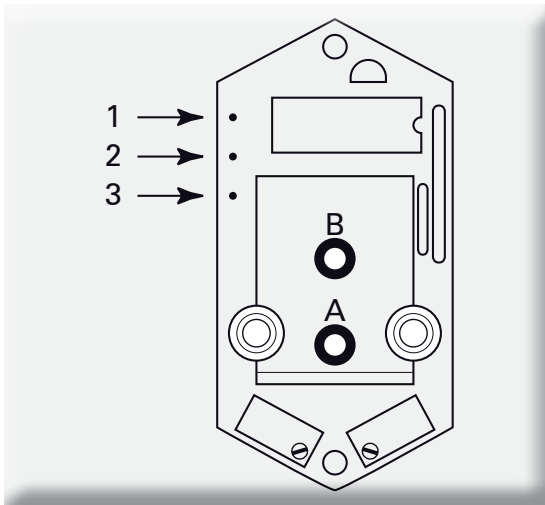
- Specifications are valid for standard pressure ranges, at  $V_s = 12\text{ V}$ ;  $T = 25\text{ °C}$  and  $R_L = 100\text{ k}\Omega$ . Pressure on Port B, for vacuum & absolute pressure on Port A
- Extended pressure range on request from 0 to fullscale
- Please specify type of pressure for adjustment: Vacuum, Overpressure or Negative- and Overpressure
- If Output is from 0.1 - 10.1 V minimum supply voltage is 12 V and adjustment tolerance  $\pm 100\text{ mV}$
- BSL = Best Straight Line
- Failure relative to 25 °C

## Dimensions



all Dimensions in mm

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- 1 Output
- 2 Ground
- 3 Voltage

## Orderinformation

(Please use the information in the table below to generate your product code.)

Example Code: Series **H 01**    **14** **1** - **PC 01** - **D**



Series	No	Output signal	Pressure range	Pressure-type	Option
H 01	14	1 - 1.0 ... 6.0 V (-) 2 - 1.0 ... 6.0 V (+) 3 - 3.5 ± 2.5 V	Please use code shown in the table below	A - Absolute	K - Customized
	16			D - Differential	
	00	4 - 0.5 ... 4.5 V 5 - 0.1 ... 5.1 V 6 - 1.0 ... 5.0 V 7 - 0.1 ... 10.1 V		R - Relative	
				B - Bidirectional	

Custom options available upon request!

- (+) Measurement overpressure
- (-) Measurement vacuum
- (±) Measurement positive and negative pressure

- 1 We give one year warranty on this series.
- 2 For media compatibility, suitability, and proper installation of the product, the buyer is responsible

Pressure range							
Unit	PSI	PSI	PSI	PSI	PSI	PSI	PSI
Pressure	0,3	1	5	15	30	100	150
Code	003	01	05	15	30	100	150
	D-R	D-R	D-R	A-D-R	D-R	D-R	D-R
<i>in hPa</i>	20	68	340	1020	2040	6080	10200

Do you search replace for a pressure sensor such as Type 142PC05D ?  
You can get it with the ordering code H01 142-PC05-D

