



# PA 440

## Field Display for Current Loop with Contacts

### Functional range

- ▶ free scalable display
- ▶ switch mode, hysteresis, parameterizable deceleration of the contacts
- ▶ no external power supply necessary

### Product characteristics

- ▶ field display for pressure transmitter with output signal: 4 ... 20 mA / 2-wire or 0 ... 10 V / 3-wire
- ▶ 4-digit LC display
- ▶ plastic housing
- ▶ pressure compensation element with PTFE-Filter

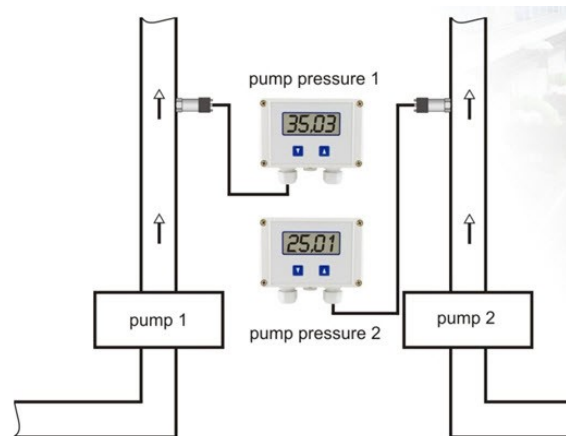
### Optional versions

- ▶ IS-version
- ▶ 2 contacts
- ▶ 4-digit LED display

### Typical application



in situ display at pumping stations



<b>Analogue signal</b>	
Standard	2-wire: 4 ... 20 mA
Option IS-version	2-wire: 4 ... 20 mA
Option 3-wire	0 ... 10 V (in preparation)
Accuracy	$\leq \pm 0.1\%$ span $\pm 1$ digit
<b>Supply</b>	
2-wire system	supplied by current loop; voltage drop $\leq 6.5$ V IS version: max. 28 V <sub>DC</sub> (for combination with transmitter and PA 440)
3-wire system	display is supplied parallel with transmitter; V <sub>S</sub> = 8 V <sub>DC</sub> ... 36 V <sub>DC</sub>
<b>Contact</b>	
Number, type	1 or 2 independent PNP open collector contacts
Switching performance	contact rating max. 125 mA, short-circuit resistant
Switching frequency	max. 8/sec
Delay time	0 ... 100 sec
<b>Miscellaneous</b>	
Electrical protection	reverse polarity protection (no damage, but also no function); electromagnetic compatibility (emission and immunity according to EN 61326); short-circuit protection
Ingress protection	IP 65
Display	4-digit, 7-segment LC display, range of indication -1999 ... +9999; accuracy 0.2 % $\pm 1$ digit; standard: LC display, digit height 18 mm      option: LED display, digit height 10 mm, red
Permissible temperatures	electronics / environment / storage: -20 ... 70 °C
Material display housing	plastic ABS, grey
Cable entries	cable gland M16x1.5 Polyamide, seals NBR, diameter range: standard 5 ... 10 mm
Atmospheric pressure compensation	pressure compensation element with PTFE filter
Terminal clamps	vertical clamps for stranded and solid wires up to 2.5 mm <sup>2</sup>
Dimensions (height x width x depth)	80 mm x 120 mm x 57 mm
Weight	approx. 220 g
CE-conformity	EMC Directive: 2014/30/EU
<b>IS protection (optionally)</b>	
Approval AX15-PA 440	IBExU08ATEX1126 X / IECEx IBE 21.0023X      zone 1: II 2G Ex ia IIB T4 Gb
Safety technical maximum values	U <sub>i</sub> = 28 V <sub>DC</sub> , I <sub>i</sub> = 93 mA, P <sub>i</sub> = 660 mW, C <sub>i</sub> = 0 nF, L <sub>i</sub> = 0 $\mu$ H
Ambient temperature range	from -20 °C to +70 °C
<b>Wiring diagram</b>	
<b>Dimensions (in mm)</b>	

This data sheet contains product specification. properties are not guaranteed. Subject to change without notice.

## Ordering code PA 440

9.12.2020

PA 440

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Version																				
Standard version	8	5	1																	
Electrical signal																				
4 ... 20 mA/ 2-wire																				1
Intrinsic safety Ex ia 4 ... 20 mA / 2-wire																				E
Customer																				9
Switching output																				
Without switching output																				0
1 PNP - switching output (only with LED display) <sup>1</sup>																				1
2 PNP - switching output (only with LED display) <sup>1</sup>																				2
without description (lables included) <sup>2</sup>																				
bar																				0
mbar																				1
m H2O																				2
Mpa																				3
kPa																				4
mA																				5
°C																				A
°C dp																				C
Kelvin																				D
mm/s																				K
%																				M
Volt																				P
Customer																				V
Label of display																				
Standard																				1
Neutral																				N
Customer																				9
Housing																				
Plastic ABS																				C
Customer																				D
Special version																				
Standard																				0
Overvoltage protection (not possible for Ex version) <sup>3</sup>																				0
Customer																				1
																				0
																				1
																				9
																				9
																				9

0,-...without additional charge

On request...in accordance with the producer

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This document contains the specification for ordering the product;

detailed technical parameters of the product and its possible variants are given in the data sheet.

BD SENSORS reserves the right to change sensor specifications without further notice.



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The company BD SENSORS s.r.o. is certified by TÜV SÜD Czech according to the standard ISO 9001.



- 1 only possible in combination with LED display
- 2 the unit signs are loose-settle
- 3 not possible for IS version



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