



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 LCD display
- ▶ plastic housing
- ▶ pressure compensation element with PTFE-Filter

Optional versions

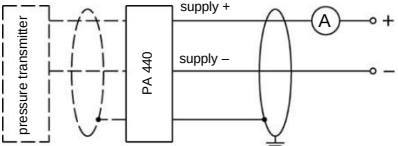
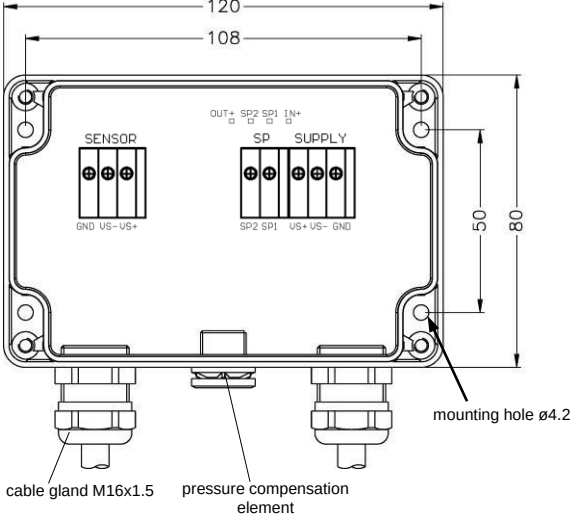
- ▶ IS-version
- ▶ 2 contacts
- ▶ 4-digit LED display

Typical application



in situ display at e.g. for tank batteries, pumping stations and much more



Analogue signal	
Standard	2-wire: 4 ... 20 mA
Option IS-version	2-wire: 4 ... 20 mA
Option 3-wire	0 ... 10 V (in preparation)
Accuracy	$\leq \pm 0.1 \% \text{ FSO} \pm 1 \text{ digit}$
Supply	
2-wire system	supplied by current loop; voltage drop $\leq 6.5 \text{ V}$ IS version: max. 28 V_{DC} (for combination with transmitter and PA 440)
3-wire system	display is supplied parallel with transmitter; $V_S = 8 \text{ V}_{\text{DC}} \dots 36 \text{ V}_{\text{DC}}$
Contact	
Number, type	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
Miscellaneous	
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 $0.2 \% \pm 1 \text{ digit}$; standard: LC display, digit height 18 mm option: LED display, digit height 10 mm, red
Permissible temperatures	electronics / environment / storage: $-20 \dots 70 \text{ }^\circ\text{C}$
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^2
Dimensions (height/width/depth)	80 mm x 120 mm x 57 mm
Weight	approx. 220 g
CE-conformity	EMC Directive: 2014/30/EU
Explosion protection (optionally)	
Approval AX15-PA 440	IBExU 08 ATEX1126 X / IECEx IBE 21.0023X zone 1: II 2G Ex ia IIB T4 Gb
Safety technical maximum values	$U_i = 28 \text{ V}_{\text{DC}}$, $I_i = 93 \text{ mA}$, $P_i = 660 \text{ mW}$, $C_i = 0 \text{ nF}$, $L_i = 0 \text{ } \mu\text{H}$
Ambient temperature range	from $-20 \text{ }^\circ\text{C}$ to $+70 \text{ }^\circ\text{C}$
Wiring diagram	
	
Dimensions (in mm)	
	

Ordering code PA 440

PA 440

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Standard version									
	8	5	1						
Analogue output									
4 ... 20 mA / 2-wire				1					
intrinsic safety for zone 1 / 4 ... 20 mA / 2-wire				E					
customer				9					consult
Contact									
without contact				0					
2 contacts ¹				2					
Unit									
without ²				0					
bar				1					
mbar				2					
mH ₂ O				3					
%				P					
mA				A					
customer				9					consult
Label on display									
standard				1					
neutral				N					
customer				9					consult
Display									
LC display					C				
LED display					D				
Housing material									
plastic ABS					G				
Special version									
standard						0	0	0	
overvoltage protection ³						1	0	1	
customer						9	9	9	consult

¹ only possible in combination with LED display

² the unit signs are loose-settled

³ not possible for IS version