



PA 440

Field Display

Functional range

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

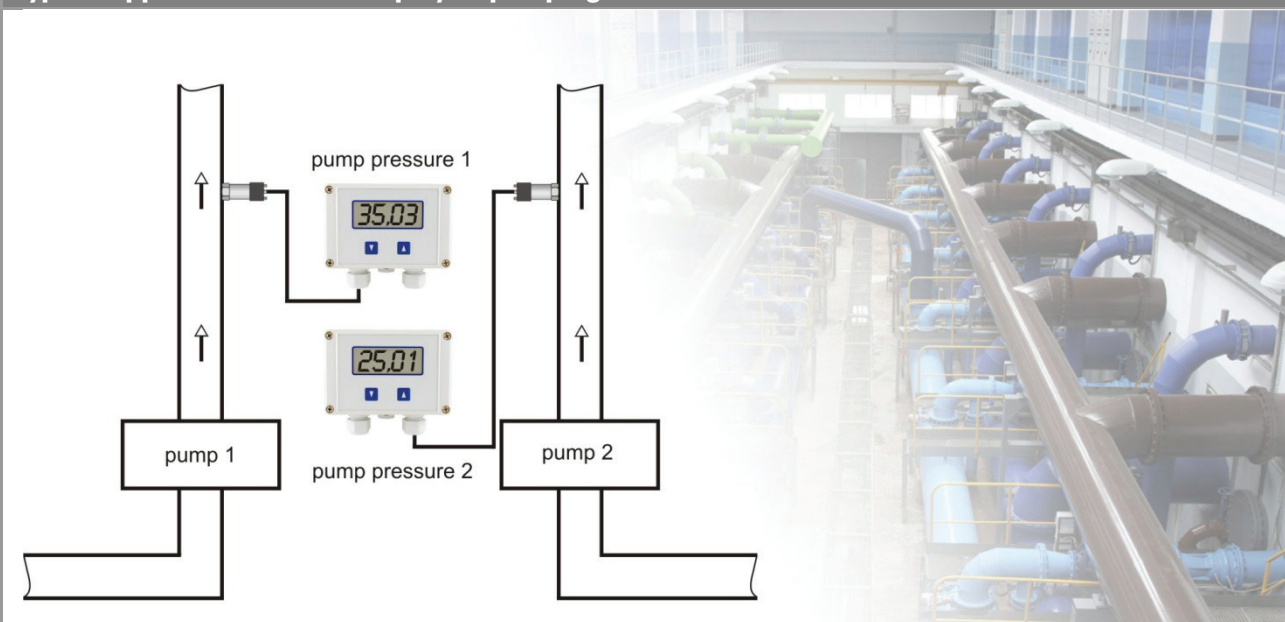
Product characteristics

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

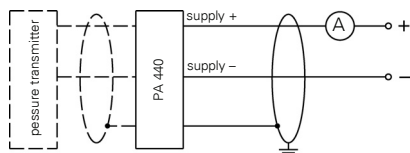
Optional versions

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

Typical application: in situ display at pumping stations

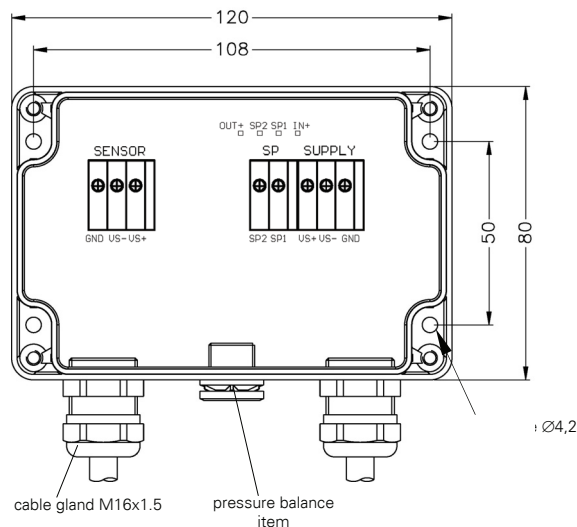


Analogue signal	
Standard	2-wire: 4 ... 20 mA
Option IS-version	2-wire: 4 ... 20 mA
Option 3-wire	0 ... 10 V (in preparation)
Accuracy	$\leq \pm 0.1\%$ FSO ± 1 digit
Supply	
2-wire system	supplied by current loop; voltage drop ≤ 6.5 V IS version: max. $28 V_{DC}$ (for combination with transmitter and PA 440)
3-wire system	display is supplied parallel with transmitter; $V_S = 8 V_{DC} \dots 36 V_{DC}$
Contact (optionally for LED display)	
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 $0.2\% \pm 1$ digit; standard: LC display, digit height 18 mm option: LED display, digit height 10 mm, red
Permissible temperatures	electronics / environment / storage: $-20 \dots 70^\circ\text{C}$
Material display housing	standard: plastic ABS, grey option: aluminium die cast case, grey powder-coating
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 x width x depth)	plastic housing: 80 mm x 120 mm x 57 mm aluminium die cast case: 80 mm x 125 mm x 57 mm
Weight	plastic housing: approx. 220 g aluminium die cast case: approx. 550 g
IS protection (optionally) – only in combination with LED display	
Approval AX15-PA 440	zone 1: II 2G Ex ia IIB T4
Safety technical maximum	$U_i = 28 V_{DC}$, $I_i = 93 \text{ mA}$, $P_i = 660 \text{ mW}$
Wiring diagram	

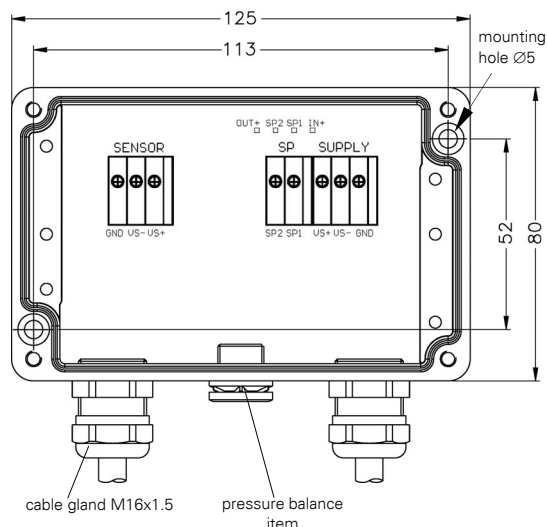


Dimensions (in mm)

plastic housing:



aluminium die cast case:



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 customer				E	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											
	Aluminium					L											
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 Ex-version