

PA 440 indicator



PA 440 is an outdoor indicator designed to visualize the analog signal of the current loop. It does not require external power.

To control level and pressure through threshold, you can add one or two low-current switches to PA 440. The device may be made intrinsically safe or Ex version. There two buttons that enable setting it up through a menu.

Signal	Analog 4 ... 20 mA, 0... 10 V
Conversion specifications	linear, square, square root, user defined
Temperature limits	-20...70 °C
Optional	up to 2 switch outputs

Technical specifications

- 4-digit 7-segment LCD display
 - easy setup
 - IP 65 ingress protection
 - pressure compensator with polytetrafluoroethylene (PTFE) filter
 - robust housing
 - quick and easy mounting
- Optional (on request):
- intrinsically safe design
 - cast aluminum housing
 - LED display

Areas of application:

- environmental engineering
- mechanical engineering and production of industrial equipment
- laboratory equipment
- chemical industry
- HVAC

[PA 440 indicator on BD SENSORS RUS website](#)

TECHNICAL FEATURES

PA 440

ANALOG SIGNAL	
Standard version	2-wire: 4 ... 20 mA
Intrinsically safe design	2-wire: 4 ... 20 mA
3-wire version	0...10 V (in development)
Accuracy	IEC 60770: $\leq \pm 0,2\%$ of span
POWER	
2-wire version:	powered by current loop: voltage drop of 6,5 V
3-wire version:	intrinsically safe design max. 28 V _{DC} (for a system of a transmitter and a PA 440) indicator connects in parallel with the transmitter: $V_s = 8 V_{DC} \dots 36 V_{DC}$
SWITCH OUTPUTS (ONLY FOR VERSION WITH LED DISPLAY)	
Number, type	max 2, independent PNP-switches with open collector
Switches features	maximum permissible load, max. 125 mA, short circuit protection
Repeatability	$\leq \pm 0,2\%$ of span
Switching frequency	max 8/s
Number of switching cycles	$> 100 \times 10^6$
Delay time	0 ... 100 s.
OTHER	
Electrical safety	Incorrect connection protection - not damaged but not functioning Electromagnetic compatibility: radiation and protection compliant with EN 61326 Short circuit protection
Ingress protection	IP 65
Display	4-digit 7-segment LCD display, range -1999 ... +9999; accuracy 0,2% \pm 1 standard LCD display, symbol height 18 mm, optional LED display, symbol height
Temperature limits	electronics / ambient / storage -20...70 °C
Zero and span temperature effect	$\leq \pm 0,15\%$ of span / 10 K
Housing material	Standard: ABS plastic, gray Optional: cast aluminum housing, gray powder coating
Cable connection	Cable gland M16x1.5 polyamide, NBR seal, clamped cable diameter: standard 5...10 mm
Atmospheric pressure compensation	pressure compensator with polytetrafluoroethylene (PTFE) filter
Terminals	vertical, for bundled and solid wires up to 2,5 mm ²
Weight	plastic housing: approx. 220 g die-cast aluminum housing: approx. 550 g

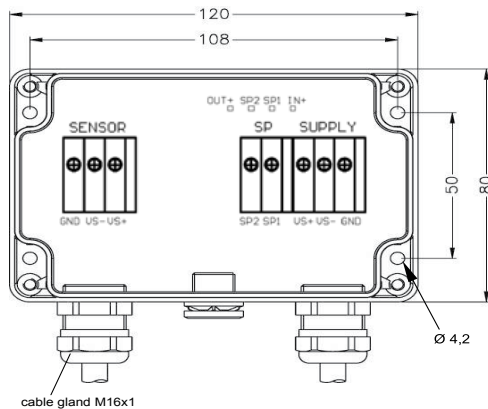
The manufacturer reserves the right to introduce changes to the product's design, appearance and/or package contents without compromising its quality.

DIMENSIONS / PORTS

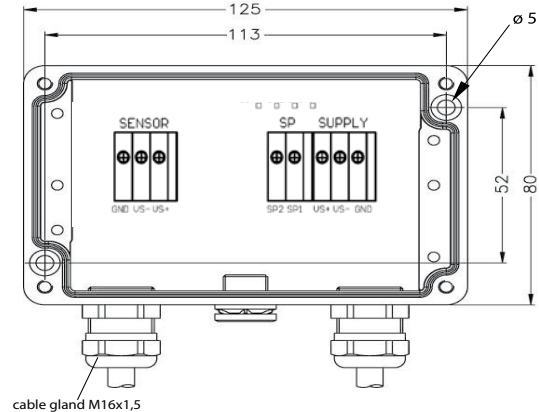
PA 440

Dimensions and ports

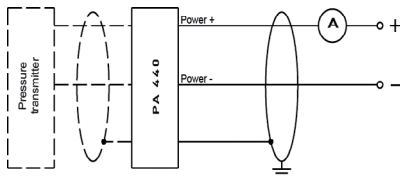
Plastic housing



Cast aluminum housing



Connections



PA 440 ORDERING CODE

PA 440	XXX	X	X	X	X	X	X	XXX
STANDARD VERSION								
Standard	851							
ANALOG OUTPUT SIGNAL								
4...20 mA / 2-wire		1						
4...20 mA / 2-wire/0ExialIBT4		E						
Other (specify when ordering)		9						
SWITCH OUTPUTS								
none			0					
1 PNP (available only with LED display)			1					
2 PNP (available only with LED display)			2					
UNITS OF MEASUREMENT								
no description				0				
bar				1				
mbar				2				
mWC				3				
%				P				
mA				A				
Other (specify when ordering)				9				
MARKING								
standard					1			
neutral					N			
Other (specify when ordering)					9			
DISPLAY								
LCD (LCD)						C		
LED (LED display)						D		
HOUSING MATERIAL								
ABS plastic							G	
Aluminum							L	
SPECIAL VERSION								
No								00R
overvoltage protection								101
Tailored to customer's requests								999

Example PA 440 851-1-1-3-1-D-G-00R