



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

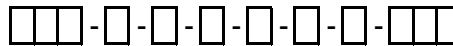


| Analogue signal | |
|-----------------------------------|---|
| Standard | 2-wire: 4 ... 20 mA |
| Option IS-version | 2-wire: 4 ... 20 mA |
| Option 3-wire | 0 ... 10 V (in preparation) |
| Accuracy | $\leq \pm 0.1\%$ FSO ± 1 digit |
| Supply | |
| 2-wire system | supplied by current loop; voltage 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} ... 36 V _{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 % ± 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 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 V _{DC} , I _i = 93 mA, P _i = 660 mW, C _i = 0 nF, L _i = 0 μ H |
| Ambient temperature range | from -20 °C to +70 °C |
| Wiring diagram | |
| | |
| Dimensions (in mm) | |
| | |

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Ordering code PA 440

PA 440



| | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|---|---|---|--|--|--|--|---|---|---|---|--|--|--|--|---------|--|
| 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 | | | | | | |

¹ only possible in combination with LED display

² the unit signs are loose-settled

³ not possible for IS version