

Level transmitters with ceramic measuring cell

ATM/K/N



Technical Specifications

Pressure measuring range (mH₂O)

| | 1 | 2 / 4 | 10 |
|-----------------------------------|------------|------------|------------|
| Overpressure | 4 bar | 6 bar | 10 bar |
| Accuracy, (1), (± % FS) | ≤ 0.25 | ≤ 0.25 | ≤ 0.25 |
| Thermal shift, (± % FS/°C) | | | |
| Zero point -20...80 °C | ≤ 0.01 | ≤ 0.01 | ≤ 0.01 |
| Span -20...80 °C | ≤ 0.01 | ≤ 0.01 | ≤ 0.01 |
| Long term stability, (2) | < 0.15% FS | < 0.15% FS | < 0.15% FS |

| | 20 | 40 | 100 / 200 |
|-----------------------------------|------------|------------|------------|
| Overpressure | 18 bar | 25 bar | 40 bar |
| Accuracy, (1), (± % FS) | ≤ 0.25 | ≤ 0.25 | ≤ 0.25 |
| Thermal shift, (± % FS/°C) | | | |
| Zero point -20...80 °C | ≤ 0.01 | ≤ 0.01 | ≤ 0.01 |
| Span -20...80 °C | ≤ 0.01 | ≤ 0.01 | ≤ 0.01 |
| Long term stability, (2) | < 0.15% FS | < 0.15% FS | < 0.15% FS |

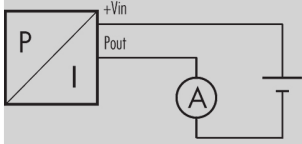
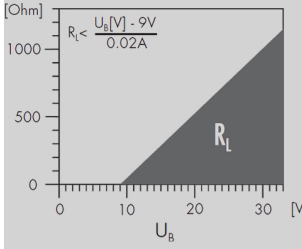
(1) Zero based accuracy according to DIN16086, incl. hysteresis and repeatability at ambient temperature

(2) 1 year (typ.)

Temperature range

| | |
|------------------------------|-------------|
| Operating temperature | -5...50 °C |
| Process temperatur | -5...50 °C |
| Storage temperatur | -10...60 °C |

Electrical specifications

| | |
|--------------------------|---|
| | 4 ... 20 mA |
| Power supply, (1) | 9...30 V DC |
| Supply influence | < 0.1% FS |
| Circuit diagram |  |
| Load resistance |  |
| Load influence | < 0.1% FS |

(1) Power supply with optional surge (lightning) protection: 12...30 V DC

Qualifications

| | Description | Level | Typical interferences |
|-------------------|-------------------------|---------------------------|--------------------------------|
| EN 61000-4-2 | Electrostatic discharge | 4 kV contact 8 kV air | |
| EN 61000-4-3 | Irradiated RF | 10V / m (0.08...1 GHz) | Radio sets, wireless phones |
| EN 61000-4-4 | Transients (burst) | 2 kV | Motors, valves |
| EN 61000-4-5, (1) | Surge | 10 kA (8 / 20 µs) | Lightning |
| EN 61000-4-6 | Conducted RF | 10 V (0.15...80 MHz) | Frequency converters |

(1) Only with optional surge (lightning) protection

Physical specifications

| Materials | |
|------------------|--|
| Transducer | Ceramic Al ₂ O ₃ (96%) |
| Housing | Stainless steel (316L / 1.4404) |
| Seals | Viton (standard), EPDM, Kalrez |
| Cable | PUR |

Equipment

Overview

| 10.00.0091 | Accessories overview |
|------------|----------------------|

Additional documents

Operating and safety instructions

| | Article number |
|------------|----------------|
| 10.88.0092 | DMM029 |

Ordering information

| | | X. XXXX. | XXXX. | XX. | XXX |
|---------------------------------|--|----------|-------|-----|-----|
| Type | | | | | |
| | ATM/K/N | 54 | | | |
| Pressure type | | | | | |
| | Gauge | 1 | | | |
| | Absolute (vacuum) | 2 | | | |
| Pressure measuring range | | | | | |
| | 0...1 mH ₂ O | 00 | | | |
| | 0...2 mH ₂ O | 40 | | | |
| | 0...4 mH ₂ O | 03 | | | |
| | 0...10 mH ₂ O | 05 | | | |
| | 0...20 mH ₂ O | 41 | | | |
| | 0...40 mH ₂ O | 08 | | | |
| | 0...100 mH ₂ O | 10 | | | |
| | 0...200 mH ₂ O | 42 | | | |
| Process connection | | | | | |
| | Standard, (Fig. 1) | 85 | | | |
| | Customized connections available | XX | | | |
| Electrical connection | | | | | |
| | PUR cable, (1) | | 30 | | |
| | PUR cable with G 1/2 M ,(Fig. 2), (1) | | 32 | | |
| | Customized connection available | | XX | | |
| Output signal | | | | | |
| | 4...20 mA | | 05 | | |
| | 4...20 mA surge (lightning) protection | | 08 | | |
| Accuracy | | | | | |
| | ≤ ± 0.25 % FS | | | 1 | |
| Temperature range | | | | | |
| | -20...80 °C compensated (allowed process temperature: -5...50 °C) | | | 3 | |
| Option 1 | | | | | |
| Option 2 | | | | | |
| Option 3 | | | | | |

(1) Please specify the required cable length and medium

Technical drawings

Dimensions

Fig. 1

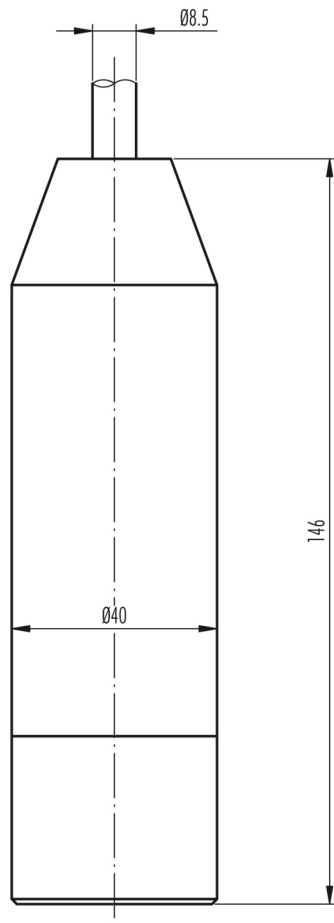
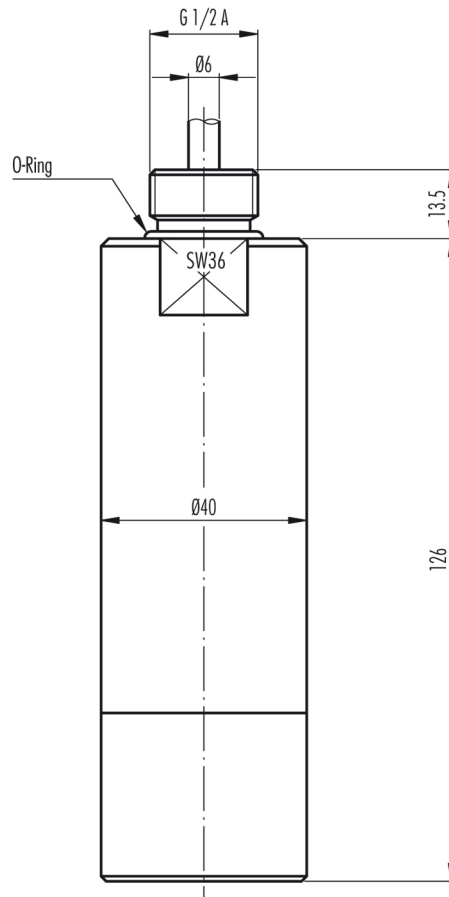


Fig. 2



Colour 2-Wire

white +Vin

yellow Pout

Specifications may change without notice.

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