

ADM 8027 EEx d

Beröringsfri ultraljudsflödesmätare för fast montage från Flexim

ADM 8027 Ultraljudsflödesmätare klarar att mäta de flesta vätskeflöden
Givarna monteras utanpå röret vilket gör den mycket lätt att använda

Enkel

- Mycket enkel att installera
- Klarar rör dim. 6 mm till 6500 mm
- Inga mekaniska ingrepp i röret
- Klarar temperaturer på 400 °C
- Menystyrd konfigurering
- Kan mäta 2 olika flöden samtidigt
- Klarar att mäta i 2 riktningar
- Utsignaler 4-20 mA / puls
- Matning 220 VAC
- Ex klassad EEx d för zon 1 eller 2



Ekonomisk

- Klarar att mäta flöden mellan 0,01 – 25 meter / sec
- Mäter volymflöde, massflöde, värmemängd eller flödeshatighet
- Mekaniskt uppbyggd för att klara tuffa industrimiljöer IP 66/68

Noggrannhet

- Onoggrannheten är +/- 1,2 % av aktuellt flöde +/- 1 mm^{*}
- Vid fältkalibrering upp till +/- 0,5 % av aktuellt flöde +/- 1 mm^{**}

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Technical Data

Measurement

| | |
|---------------------------------------|--|
| Measuring principle: | transit time difference correlation principle |
| Flow velocity: | (0.01 to 25)m/s |
| Repeatability: | 0.15% of reading \pm 0.01 m/s |
| Accuracy* | |
| - with 7 points wet flow calibration: | \pm 1.2% of reading \pm 0.01 m/s |
| - with process calibration**: | \pm 0.5% of reading \pm 0.01 m/s |
| Measurable fluids: | all acoustically conductive fluids with < 10% gaseous or solid content in volume |

Transmitter

| | |
|--|--|
| Housing | |
| - Weight: | 8027: approx. 2.8kg 8127: approx 8.5 kg |
| - Deg. of protection: | IP66 acc. to EN60529 |
| - Material: | 8027: cast aluminium 8127: steel 1.4571 |
| - Dimensions: | s. drawing on page 4 |
| Flow channels: | 1 or 2 |
| Power supply: | (100 to 240) VAC / 12VDC / 24VDC |
| Display: | 2 x 16 characters, dot matrix, backlit |
| Operating temperature: | -10°C to 50°C |
| Power consumption: | < 15W |
| Signal damping: | (0 to 100)s, adjustable |
| Measuring cycle: | (100 to 1000)Hz (1 channel) |
| Response time: | 1 s (1 channel), 70ms opt. |
| Use in explosive atmosphere | |
| Hazard zones: | zone 1 and 2 |
| Explosion protect. temp. acc. to ATEX: | -20°C to 60°C |
| Marking: | CE 0044; Ex II2G EEx de IIC T6 T _a -20°C... 60°C |
| Certification: | IBExU 01 ATEX 1064 |
| Type of protection: | Electronics: flameproof enclosure Terminals: increased safety |

Measuring functions

| | |
|----------------------------|--|
| Quantities of measurement: | Volume flow, mass flow, flow velocity |
| Totalizers: | Volume, mass |
| Calculation functions: | Average, difference, sum |
| Operating languages: | Danish, Dutch, English, French, German, Norwegian, Polish, Spanish |

Data logger

| | |
|------------------|--|
| Loggable values: | All measured quantities and totaled values |
| Capacity: | >100000 meas. values |

Communication (optional)

| | |
|------------|--|
| Interface: | RS485 |
| Data: | actual meas. value, logged data, parameter records |

Software FluxData (optional)

| | |
|--------------------|--|
| Function: | Downloading meas. data/ parameter records, graphical presentation, conversion to other formats |
| Operating systems: | All Windows™ versions |

Outputs (optional)

The outputs are galvanically isolated from the main device. The basic instruments are equipped with 1 current output and 1 binary output (OC). A maximum of 2 binary outputs (relays), 1 binary output (OC) and 1 current output can be added.

Current

| | |
|-------------|---------------------------------|
| - Type: | active, R _{ext} < 500Ω |
| - Range: | (0/4 to 20)mA |
| - Accuracy: | 0.1% of reading \pm 15μA |

Binary

| | |
|--|--|
| - Open collector: | 24V/4 mA |
| - Reed relay: | 48 V/0.1 A |
| - Function as state output: | limit, sign change or error |
| - Properties of the pulse output (OC): | Value: (0.01 to 1000) units Width: (80 to 1000)ms |

* under reference conditions and with $v > 0.15$ m/s

** if reference uncertainty better than 0.2%

Gällande transdusers och andra tillbehör se separata datablad