

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 konfiguration
- 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^{**}

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:	1s (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;  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, $R_{ext} < 500\Omega$
- Range:	(0/4 to 20)mA
- Accuracy:	0.1% of reading \pm 15 μ A

Binary

- Open collector:	24V/4 mA
- Reed relay:	48 V/0.1A
- 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 transducers och andra tillbehör se separata datablad