

ADM 7407

Beröringsfri ultraljudsflödesmätare för fast montage från Flexim

ADM 7407 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 gr C
- Menystyrd konfiguration
- Kan mäta 2 olika flöden samtidigt
- Klarar att mäta i 2 riktningar
- Utsignaler 4-20 mA / puls
- Matning 220 VAC
- Givare kan monteras i Ex miljö



Ekonomisk

- Klarar att mäta flöden mellan 0,01 – 25 meter / sec
- Mäter volymflöde, massflöde, värmemängd eller flödeshatighet
- Mekaniskt uppbyggd för att klara tuffa industrimiljöer IP65/66/68

Noggrannhet

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

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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:	7407: ca. 2.8kg, 7907: ca. 1.7kg
- Deg. of protection acc. to EN60529:	7407: IP65 7907: IP20
- Material:	Aluminium, powder coated
- Dimensions (WxHxD):	7407: (287 x 200 x 70)mm 7907: (42TEx3HE) (without back panel)
Flow channels:	1 or 2
Explosion protection in:	Zone 2
Power supply:	(100 to 240)VAC (18 to 36)VDC
Display:	2 x 16 characters, dot matrix, backlit
Operating temperature:	-10°C to 60°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.
Measuring functions	
Quantities of measurement:	Volume and mass flow rate, flow velocity, heat flow rate (only if temperature inputs are installed)
Totalizers:	Volume, mass, heat (opt.)
Calculation functions:	Average, difference, sum
Operating languages:	Danish, Dutch, English, French, German, Norwegian, Polish, Spanish
Data logger	
Loggable values:	All measured quantities and totalized values
Capacity:	>100000 meas. values

* 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.

Communication	
Interface:	RS232, RS485 optional
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 number of outputs that can be installed depends on the output type. Consult FLEXIM for more information.	
Current	
- Range:	(0/4 to 20)mA
- Accuracy:	0.1% of reading \pm 15 μ A
- Active output:	$R_{ext} < 500 \Omega$
- Passive output:	$U_{ext} < 24V, R_{ext} < 1k\Omega$
Voltage	
- Range:	(0 to 1)V or (0 to 10) V
- Accuracy:	(0 to 1)V: 0.1% of reading \pm 1mV (0 to 10)V: 0.1% of reading \pm 10mV
- Intr. resistance:	$R_i = 500 \Omega$
Frequency	
- Range:	(0...1)kHz or (0...10)kHz
- Open collector:	24 V/4mA
Binary	
- Open collector:	24 V/4mA
- Reed relays:	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: 7407: (1 to 1000)ms 7907: (80 to 1000)ms
Inputs (optional)	
- The inputs are galvanically isolated from the main device. - A maximum of 4 inputs can be installed.	
Temperature	
- Type:	Pt100 four-wire circuit
- Range:	-50°C to 400°C
- Resolution:	0.1 K
- Accuracy:	\pm (0.2K + 0.1% of reading)
Current	
- Range:	active: (0 to 20)mA passive: (-20 to 20)mA
- Accuracy:	0.1% of reading \pm 10 μ A
- Active input:	$R_i = 50 \Omega$
- Passive input:	$U_{ext} < 24V, R_{ext} < 1k\Omega$
Voltage	
- Range:	(0 to 1)V or (0 to 10)V
- Accuracy:	(0 to 1)V: 0.1% of reading \pm 1mV (0 to 10)V: 0.1% of reading \pm 10mV
- Intr. resistance:	$R_i = 1M\Omega$