

# ADM 5107

## Beröringsfri ultraljudsflödesmätare för fast montage från Flexim

ADM 5107 Ultraljudsflödesmätare är designad för fast installation och mätningar inom exempelvis vatten eller reningsverk.

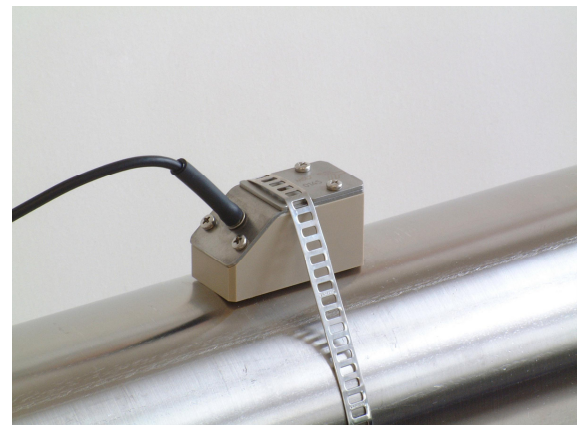
### Enkel

- Mycket enkel att installera
- Klarar rör dim. 25 till 400 mm eller 100 till 2500 mm
- Inga mekaniska ingrepp i röret
- Klarar temperaturer på +100 °C
- Menystyrd konfiguration
- Kan levereras färdig konfigurerad
- Utsignaler 4-20 mA / puls
- Matning 220 VAC eller 24 VDC



### Ekonomisk

- Klarar att mäta flöden mellan 0,01 – 25 meter / sec
- Mäter volymflöde, massflöde eller flödes hastighet
- Kapslingsklass IP 65 / 66
- Lågt inköpspris



### Noggrannhet

- Onoggrannheten är 2 till 3 % av aktuellt flöde +/- 0.02 m/s

## Technical Data

### Measuring

Measuring principle:	transit time difference correlation principle
Flow velocity:	(0.01 ... 25)m/s
Resolution:	0.025cm/s
Repeatability:	0.25% v. of reading $\pm$ 0.02m/s
Accuracy	(for fully developed, rotationally symmetrical flow profile)
- Volume flow:	$\pm$ 2% ... 3% of read. $\pm$ 0.02m/s depending on application $\pm$ 0.5% of read. $\pm$ 0.02m/s with process calibration
Measurable fluids:	all acoustically conductive fluids with < 10% gaseous or solid content in volume

### Transmitter

Enclosure	
- Weight:	5107: ca. 1.5kg 5207: ca. 1.8kg
- Deg. of protection:	IP66 acc. to EN60529
- Material:	Aluminum, powder coated
- Dimensions:	5107: (180 x 140 x 71)mm (WxHxD) without cable glands 5207: (220 x 140 x 71)mm (WxHxD) without cable glands
Flow channels:	5107: 1 5207: 2 (the two transducer pairs must be of the same type)
Explosion protection in:	Zone 2
Power supply:	(100... 240)VAC (18... 36)VDC
Display:	2 x 16 characters, dot matrix, backlit
Operating temperature:	-10°C...60°C
Power consumption:	< 15W
Signal damping:	(0...100)s, adjustable
Measuring cycle:	(100... 1000)Hz (1 channel)
Response time:	1s (1 channel)

### 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

### Communication (optional)

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

### Outputs (optional)

- The outputs are galvanically isolated from the main device.
- The basic instrument 5107 is equipped with 1 current output and 2 binary outputs (OC, reed relay on request).
- The basic instrument 5207 is equipped with 2 current output and 2 binary outputs (OC, reed relay on request).

#### Current

- Measuring range:	(0/4...20)mA
- Accuracy:	0,1% of read. $\pm$ 15 $\mu$ A
- Active output:	R <sub>ext</sub> < 500 $\Omega$

#### Binary

- Open collector:	24V/4mA
- Reed relay:	48V/0.1A
- Function as state output:	Limit, sign change or error
- Properties of the pulse output (OC):	Value: (0.01... 1 000)units Width: (80... 1 000)ms

### Flow transducers (clamp-on)

The transducers must be ordered separately. The transducer type to be used depends on your application.

**Important:** The electronic of the FLUXUS® F 5X07 is always prepared for a specific flow transducer type. It is not possible to use another type of transducers.

#### Type M5

Rated (possible) diameter range:	(50) 100... 2500mm
Dimensions:	(58 x 28 x 31)mm
Material:	PEEK with stainless steel cap
Deg. of protection:	IP65 acc. to EN60529
Operating temperature:	Process: -30°C ... 100°C Ambient: -30°C ... 100°C

#### Type Q5

Rated (possible) diameter range:	(10) 25... 400mm
Dimensions:	(35 x 21 x 18)mm
Material:	PEEK with stainless steel cap
Deg. of protection:	IP65 acc. to EN60529
Operating temperature:	Process: -30°C ... 100°C Ambient: -30°C ... 100°C