

Integral: MiOM909**Transmitter****Sensor****Salient Features**

- Non-contact, stable and reliable measurement
- Installation directly above standard weir
- Accurate measurement
- 2 High-performance
- Low power consumption
- Ingress protection IP65
- Wide range of application
- One transmitter can match the five standard weir trough(thin-walled triangular weir, broad crested weir, triangular profile weir, Parshall slot, thin-walled rectangular weir
- Multi-purpose, one instrument can measure the flow, but also the level(within range)
- Automatic temperature compensation

Introduction

MiOM series Ultrasonic Open Channel Flow meter uses high precision, high reliability, high performance, components which make it the ultrasonic Open Channel Flow Meter of choice to many customers all over the world.

Ultrasonic Flow Meter measures level with sonic wave by 'time of flight principle'.

A wave of Ultrasonic sound is sent by Ultrasonic beacon towards the liquid surface and reflection wave coming from the liquid is sensed to compute the time required to travel the distance to measure the level accurately, also to measure velocity of the liquid in the channel below.

Application

Widely used in the measurement of flow of different liquids in different type of open channels viz. Triangular weir, Rectangular weir and Parshall flumes.

Specifications:**MiOM909 (Transmitter)**

Power supply: DC 24V ($\pm 5\%$); AC220V ($\pm 20\%$)

Display: 2 lines 14 digit backlit LCD

Flow range: 0.0000~99999L/S or m³/h

Flow Totaliser: 9999999.9 m³/h

Accuracy: 1mm or 0.2% of measured level

Resolution: 1mm

Analogue output: 4-20mA into 500 Ohms

Relay O/P: 6multi-function SPDT 5A,250V/30VDC

High, low, failsafe & control flow rate or level.

Serial communication: RS485, MODBUS-RTU

Ambient temperature: -40°C~70°C

Pressure range: ± 0.1 MP (press definitely)

Measure cycle 1 second (changeable)

Parameter setting: 3 induction buttons / remote

Cable gland PG9 /PG11/ PG13.5

Material: ABS

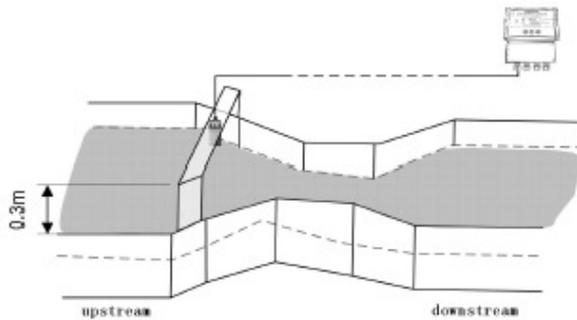
Protect grade: IP67

Fix Hang

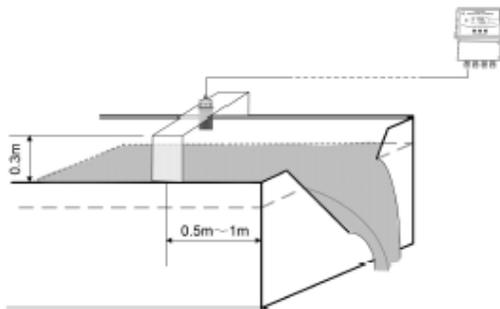
Dimensions 248H*184W*122D(mm)

Typical Installations

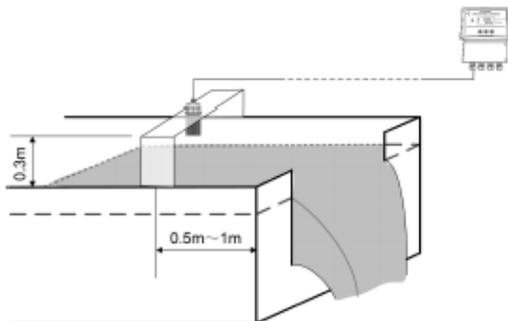
Parshall flume



Triangular weir



Rectangular weir



Specifications: MiOM909 (Sensor)

Type: LB-4 (probe)
Range: 0.00-4.00m
Blind zone: 0.20m
Ambient temperature: -40°C~70°C
Temperature compensation: Integral in probe
Pressure range: 0.2MPa
Beam angle: 10 (3db)
Cable length: 10m standard (extended to 1000m)
Material: ABS, PVC or PTFE (optional)
Protect grade: IP68
Fix Screw (G2) or flange (DN65/DN80/etc.)

Ordering Information:

Following information is desired for providing the appropriate solution to your flow measuring requirement.

- Type of Weir
- Dimensions of weir
- Approximate flow rate
- Flow range desired
- Power Supply available
- Type of installation Integral or Separate
- Distance between installation and indication location or control room
- Ambient temperature range
- Desired Outputs
- Communication protocol
- Control application if desired
- If no power available a battery powered device with Solar charging panel can be provided

Continuous product development may cause changes in the above information without notice.

MiFLOW

www.miflowmeter.com

ISO9001:2008

MiFlowmeter Systems

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