

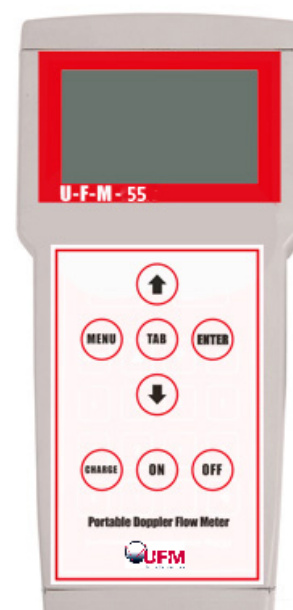
## UFM-55 | Data Sheet

# UFM-55 Portable Ultrasonic Doppler Flowmeter

for accurate flow measurement from outside a pipe

### Features:

- It is suitable for pipe  $\varnothing$  ranging from 40 to 4000mm
- For dirty liquids, a certain amount of air bubbles or suspended solids shall be contained
- Excellent low flow rate measurement ability, low to 0.05m/s
- A wide range of flow measurement, high flow rate can reach 12m/s
- High-temperature transducer is suitable to liquids of  $-35^{\circ}\text{C} \sim 200^{\circ}\text{C}$
- Do not need to shut down the pipe flow when installing the transducers
- User-friendly configuration
- 4-20mA, Relay Totalizer and Relay Alarm outputs
- Accuracy: 2.0% Calibrated span
- Rechargeable battery can work up to 14 hours



### Applications:

- Raw sewage
- Activated sludge
- Ground water
- Pulp and paper slurries
- Chemical slurries
- Drainage
- Mining recirculation



## Technical Parameters

### Specifications: Transmitter

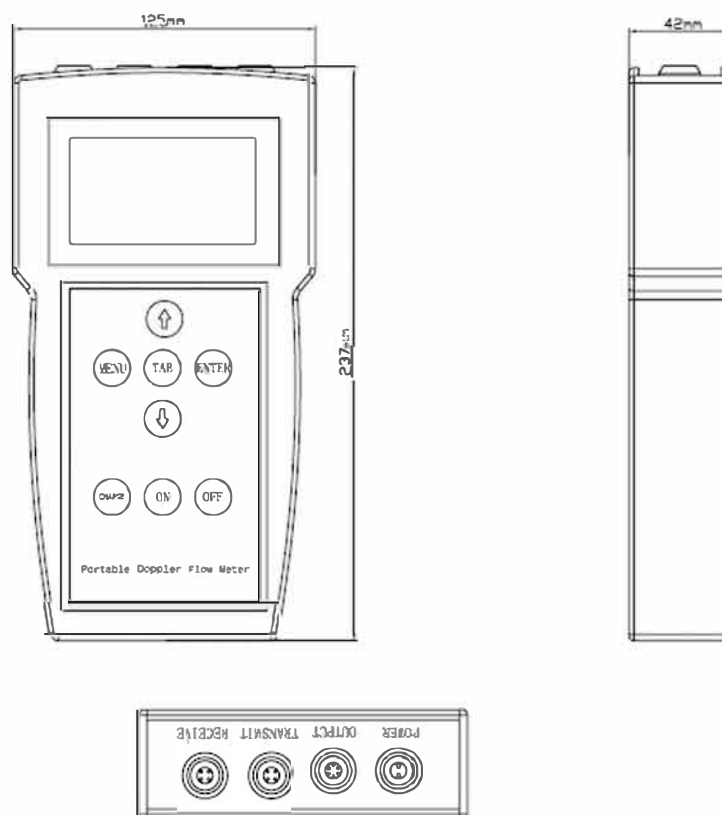
Measurement principle	Doppler ultrasonic
Resolution	0.25mm/s
Repeatability	0.2% of reading
Accuracy	0.5% -- 2.0% F.S.
Response time	2-60s for optional
Flow Velocity Range	0.05- 12 m/s
Liquid Types Supported	Liquids containing 100ppm of reflectors and at least 20% of the reflectors are larger than 100 micron.
Power Supply	AC: 85-265V
Enclosure type	Handheld
Degree of protection	IP65 according to EN60529
Operating temperature	-20℃ to +60℃
Housing material	ABS
Measurement Channels	1
Display	2 line × 8 characters LCD, 8-digit rate or 8-digit total (resettable)
Units	User Configured (English and Metric)
Rate	Rate and Velocity Display
Totalized	gallons, ft³, barrels, lbs, liters, m³,kg
Communication	4-20mA,relays for Totalizer and alarm output
keypad	6pcs buttons
Size	Transmitter:235X125X45mm case:410X320X80mm
Weight	0.6kg

### Specifications: Transducer

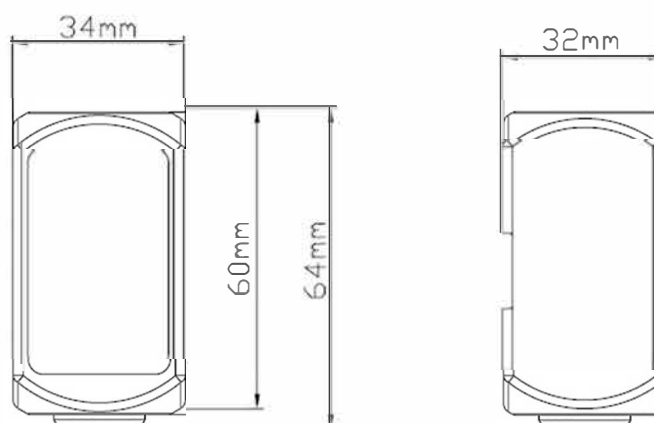
Transducers Type	Clamp-on
Degree of protection	IP65. IP67 or IP68 according to EN60529
Suited Liquid Temperature	Std. Temp.: -35℃~85℃ for short periods up to 120℃ High Temp.: -35℃~200℃ for short periods up to 250℃
Pipe diameter range	40-4000 mm
Transducer Size	60(h)*34(w)*33(d)mm
Material of transducer	Aluminum for standard temp. sensor,and peek for high temp. sensor
Cable Length	Std: 5m

## Technical drawings

### Transmitter:



### Transducer:



## Images



## Summary

### UFM-55 Handheld Doppler Clamp-on Series Flowmeters

#### Power supply

A 85-265VAC

#### Output Selection 1

N N/A

1 4-20mA

2 Relay for Totalizer

3 Relay for Alarm

#### Output Selection 2

Same as above

#### Sensor Type

S Standard Clamp-on transducer (DN40-4000)

#### Transducer Temperature

S -35~85°C (for short periods up to 120°C)

HT -35~200°C (for short periods up to 250°C)

#### Pipeline Diameter

DN-K1 e.g. DN40—40mm, DN4000—4000mm

#### Cable length

5m 5m (standard 5m)

**UFM-55** — A — 1 — 2 /LDH— S — S — DN100 — 5m (example configuration)