

The UFM300 is a compact and lightweight time-difference ultrasonic flowmeter, designed for portable and on-site flow measurement. Its rechargeable battery and universal power supply make it convenient for field engineers to perform pipeline measurements anytime, anywhere.

With a magnetic clamp-on transducer, installation is quick and simple, requiring no pipe cutting or process interruption. It is ideal for applications involving toxic or highly corrosive media, overhead pipelines, and pressure-resistant systems.

Suitable for ultrasonic flow measurement in uniform liquids such as hydrogen decomposition, data cooling, solar energy, tap water, wastewater treatment, seawater desalination, industrial process water, cooling water, aquaculture, pure water treatment, RAS, HVAC, agricultural irrigation, etc.

FEATURES

- Pipe size -DN15-6000mm
- Flexible Power Options
- Non-Intrusive Measurement
- Data Logging: Stores 65,000+ measurement record
- Measurement accuracy is better than  $\pm 1\%$
- Enhanced Reliability



TECHNICAL SPECIFICATION

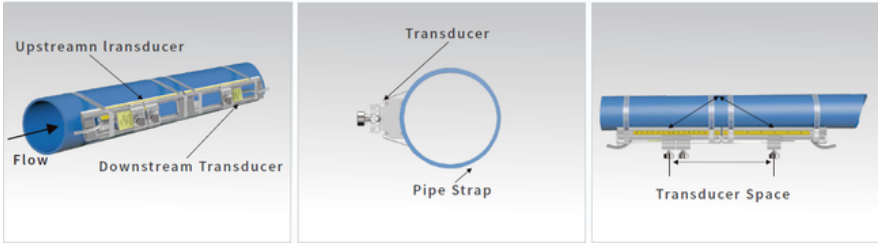
|                     |                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pipe Size           | DN15-6000mm                                                                                                                                                                 |
| Flow Velocity Range | 0~10m/s                                                                                                                                                                     |
| Accuracy            | 1% of measured value(0.5m/s~5m/s)                                                                                                                                           |
| Repeatability       | 0.2%                                                                                                                                                                        |
| Medium temperature  | 0°C~90°C (standard)                                                                                                                                                         |
| Display             | 6×24Western character dot matrix backlight LCD display                                                                                                                      |
| Tubing              | Carbonsteel, Stainlesssteel, Castiron, Copper, PVC, Aluminum, Fiberglass,                                                                                                   |
| Temperature range   | -20°C~60°C                                                                                                                                                                  |
| Humidity            | 0 ~ 85% RH , Non-Condensing                                                                                                                                                 |
| Data Storage        | Built-in data storage capable of storing 65,000 measurement records                                                                                                         |
| Medium              | Water, Seawater, Industrial waste water, Acidic and alkaline solutions, Alcohol, Beer, various oils and single homogeneous liquids capable of transmitting ultrasonic waves |
| Shell Material      | Flame-retardant ABS engineering plastic                                                                                                                                     |
| Weight              | 0.6 kg                                                                                                                                                                      |
| Battery             | Built-in 3 NiMH rechargeable batteries provide up to 8 hours of continuous operation                                                                                        |

TRANSDUCER SPECIFICATION

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Sensor category                | Magnetic suction portable               |
| Model                          | ULT30                                   |
| Measurement Medium Temperature | 0°C~80°C (standard)                     |
| Measurement Pipe Dia           | 15mm~6000mm                             |
| Sensor                         | S1 DN15-100                             |
|                                | M1 DN50-700                             |
|                                | L1 DN300-6000                           |
| IP Rating                      | IP68                                    |
| Installation Method            | Support V -type<br>Z -type installation |
| Standard Cable Length          | 5m                                      |
| Weight                         | 1.2 kg                                  |
| Warranty                       | 1 Year                                  |

Transducer Installation Method

V-Type Installation Method Applicable Pipe Diameter Range: 15mm~400mm (same side, ensure both sensors are horizontally aligned, with their centerlines parallel to the axis of the pipe) (recommended)



Z-Type Installation Method Applicable Pipe Diameter Range: 300mm~6000mm (opposite sides, avoid installing at the top or bottom of the pipe). When installing the flowmeter, it is recommended to use the Z-type installation method for pipe sections of 300mm and above.

