

# UFM-01



## Ultrasonic Flow Sensor Module

- No moving parts
- Accurate and highly reliable
- Compact & cost effective

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**The UFM-01 is a complete flow measuring unit, including the sensor electronics, the spool piece with standard 1/2" threads, and a cable connector supporting single-wire and UART interfaces.**

The module is based on SciSense contactless ultrasonic flow sensor technology, which does away with the rotors and other mechanical parts in traditional Hall sensor-based flow sensors. By contrast, the ultrasonic UFM-01 contains no moving parts, and

offers an unlimited lifetime when operated according to datasheet specifications.

The UFM-01 is suitable for use with food-grade material and can directly measure drinking water flows. Accurate to at least  $\pm 5\%$  at flow rates above 60 l/hr, the UFM-01 enables precise control of liquid flow and – via a built-in temperature sensor – liquid temperature in the control systems of products such as boilers, smart taps, beverage brewing machines, and more.

### Features & Benefits

- Long-time reliability
  - Solve the pain point, no movable parts, no risk of getting stuck
- High accuracy
  - Up to 5% accuracy at wide range (can be even better with customization)
- Wide sensing range
  - 0 to 2000 l/h
- Low power
  - 2mA average current with single 5 V power supply
- Standard interface
  - UART, 1-wire communication supported and industrial standard mechanical interface
- Cost effective
  - Simplified system design and automatic production to optimize the overall cost
- Food grade material
  - Can be used for drinking water directly

### Applications

- Boilers
- Water purifiers
- Coffee machines
- Smart toilets

### Dimensions

