# YQ-5300

## Portable open-channel flow meter

### Overview

The YQ-5300 portable open-channel flow meter compares liquid level and flow readings. The source states that it synchronously records six liquid-level readings from each of the online and portable meters within 12 minutes, and two cumulative open-channel flow readings from each within 10 minutes; it calculates comparison errors.

### Features

- The source lists ten basic weir and flume types: triangular weir, rectangular weir, equal-width weir, Parshall flume, rectangular broad-crested weir, round-edged broad-crested weir, triangular-profile weir, flat V-shaped weir, throatless flume and trapezoidal thin-plate weir.
- 24-bit signal acquisition module.
- Large colour LCD touchscreen with guided operation.
- Built-in miniature printer for on-site measurement data.
- Measurement data can be exported to a USB drive.
- Stores 20000 historical measurements.
- Built-in lithium battery; the source states 72 hours of continuous measurement per charge.
- Portable carrying-case design.



## Technical specifications

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| Flow measurement range | 0-40 m³/s |
| Flow measurement frequency | 3 times/s |
| Level resolution | 0.1 mm |
| Level measurement error | ≤0.5 mm |
| Flow measurement error | ≤1% |
| Level comparison error | ≤4 mm |
| Operating ambient temperature | -0 to +40 °C |
| Operating ambient humidity | ≤85% |
| Charging supply | AC 220 V ±15% |
| Internal battery | DC 24 V lithium battery; 72 h continuous operation |
| Dimensions | 380 × 300 × 160 mm |

## Referenced standards

- JJG 711-1990 - Trial verification regulation for open-channel weir and flume flowmeters
- HJ 15-2019 - Technical requirements and test methods for ultrasonic open-channel wastewater flowmeters
- HJ 354-2019 - Acceptance technical specification for water pollution source online monitoring systems (CODcr, NH3-N, etc.)
- HJ 354-2019 - Acceptance technical specification for water pollution source online monitoring systems (CODCr, NH3-N, etc.)
- HJ 355-2019 - Operation technical specification for water pollution source online monitoring systems (CODCr, NH3-N, etc.)

## Configuration

### Standard

- Main unit
- Tripod
- Telescopic rod
- Sensor (source label uncertain; see note)
- Printer
- Measuring tape

## Source notes and verification

- The sensor label in the Chinese source may contain a typographical error; the sensor type requires confirmation.
- HJ 354-2019 appears twice in the catalogue and is retained twice. Standard identifiers and descriptions have not been independently verified.
- The source prints the operating temperature as -0 to +40 C; the negative-zero notation is retained and requires confirmation.
- Catalogue specifications and battery runtime are unverified; translation has not been reviewed by a native technical translator.
- Certifications have not been independently verified.