



Handheld electromagnetic water flow meter with automatic discharge calculation

- Usage Type Spot
- Measurement range Electro-magnetic
- Parameters measured Flow velocity and water depth
- **Product Highlights**

Low maintenance magnetic - inductive probe with level measurement for reliable flow measurements. Works well in low flow and turbulent conditions, cross - sections with weed growth and pollution. Applicable in streams and conduits.

- Rango de medición 0 ... 6 m/s
- Accuracy \pm 2% of measured value \pm 0.015 m/s (0 ... 3 m/s) and \pm 4% of measured value \pm 0.015 m/s (3 ... 5 m/s)

The OTT MF Pro is a user-friendly, low maintenance electromagnetic current meter for costefficient in-stream discharge measurement.

The OTT MF pro saves time in the field by automatically calculating discharge and its electromagnetic sensor head is maintenance-free, ideal for use in low-flow environments,











and unaffected by large amounts of organic matter.

| Velocity measurement | |
|-------------------------------------|------------------------------------------------------------------|
| Measurement method | Magnetic-inductive |
| Measuring range: | 0 6 m/s |
| Accuracy | |
| Accuracy at 0 [] 3 m/s | ±2 % of meas. value ±0.015 m/s |
| Accuracy at 0 [] 5 m/s | ±4 % of meas. value ±0.015 m/s |
| Zero stability | ±0.015 m/s |
| | |
| Resolution | |
| 0.001 at measured value | <10 |
| 0.01 at measured value | <100 |
| 0.1 at measured value | >100 |
| | |
| Depth measurement (option) | |
| Absolute pressure sensor | with single point calibration |
| Measuring range: | 0 3.05 m |
| Accuracy: | The larger of ±2% of measured value or ±0.015 m |
| | |
| Methods for velocity | |
| measurement | |
| Streams: | 1-,2-,3-,4-,5- and 6-point measurement, ice measurement (1 point |
| | and 2 points), surface measurement according to ISO, 2-point |
| | measurement according to KREPS |
| Conduits (canalization): | 0.9 x Vmax; 0.2/0.4/0.8; 2D |
| | velocity integrating method |
| Conduit profiles: | Circular, rectangular, trapezoidal, 2/3 egg, inverted 2/3 egg |
| Mothodo for discharge | |
| Methods for discharge EN ISO 748 | Mid and Mean section method |
| EN ISO 748 | imia ana mean section method |
| Power supply | Lithium-ion battery |
| Lifetime | 18 hours typ. (20°C) |
| | 10 1100110 1361 (20 0) |
| Data memory capacity | Up to 10 measuring locations (of 32 vertical profiles each) |
| Temperature | -20 +60°C (operation/storage) |
| | |













Handheld unit display

Technical Data

OTT MF pro - Water Flow Meter



| Graphic colour display, | LCD 3.5', QVGA |
|--------------------------|---------------------------------------|
| transflective | |
| Handheld unit interface: | USB Mini B type, 5-pin |
| Export format | TSV (Tab Separated Value) file format |

| Operating modes | Real-time velocity measurement, Discharge profile |
|-----------------|---------------------------------------------------|
| | (stream/conduit) |

| Noise suppression | 50 Hz, 60 Hz (adjustable) |
|-------------------|---------------------------|
|-------------------|---------------------------|

| Cable lengths 2 m, 6 | m,12 m, and 30 m |
|----------------------|------------------|
|----------------------|------------------|

| Material | |
|-----------------|-----------------------------------------------------------|
| Sensor housing: | ABS, glass-fiber reinforced |
| Handheld unit: | Polycarbonate, moulded,by shock-absorbing elastomer (TPE) |

Dimensions and weight

| Sensor body: | |
|--------------|---------------------------|
| L x W x H: | 11.9 cm x 4.3 cm x 6.3 cm |
| Weight: | 0.5 kg (with 6 m cable) |

| Handheld ui | nit: | |
|-------------|------|---------------------------|
| L x W x H: | | 21.8 cm x 9.3 cm x 5.3 cm |
| Weight: | | 0.68 kg |

| IP class of protection | |
|------------------------|-------------------------|
| Sensor: | IP68 |
| Handheld unit: | IP67 (USB cap attached) |









