



## Handheld electromagnetic water flow meter with automatic discharge calculation

- **Usage Type**  
Spot
- **Measurement technology**  
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.
- **Measurement range**  
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 cost-efficient 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.

<b>Velocity measurement</b>	
<b>Measurement method</b>	Magnetic-inductive
<b>Measuring range:</b>	0 ... 6 m/s
<b>Accuracy</b>	
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
<b>Resolution</b>	
0.001 at measured value	<10
0.01 at measured value	<100
0.1 at measured value	>100
<b>Depth measurement (option)</b>	
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
<b>Methods for velocity measurement</b>	
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
<b>Methods for discharge</b>	
EN ISO 748	Mid and Mean section method
<b>Power supply</b>	
Lifetime	18 hours typ. (20°C)
<b>Data memory capacity</b>	Up to 10 measuring locations (of 32 vertical profiles each)
<b>Temperature</b>	-20 ... +60°C (operation/storage)
<b>Handheld unit display</b>	

# Technical Data

OTT MF pro - Water Flow Meter



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

<b>Operating modes</b>	<b>Real-time velocity measurement, Discharge profile (stream/conduit)</b>
------------------------	---

<b>Noise suppression</b>	<b>50 Hz, 60 Hz (adjustable)</b>
--------------------------	----------------------------------

<b>Cable lengths</b>	<b>2 m, 6 m, 12 m, and 30 m</b>
----------------------	---------------------------------

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

## Dimensions and weight

<b>Sensor body:</b>	
L x W x H:	11.9 cm x 4.3 cm x 6.3 cm
Weight:	0.5 kg ( with 6 m cable)

<b>Handheld unit:</b>	
L x W x H:	21.8 cm x 9.3 cm x 5.3 cm
Weight:	0.68 kg

<b>IP class of protection</b>	
Sensor:	IP68
Handheld unit:	IP67 (USB cap attached)

### 3-3

We reserve the right to make technical changes and improvements without notice. V-30/08/2022

OTT Hydromet GmbH, Germany

