



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 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
Methods for discharge	
EN ISO 748	Mid and Mean section method
Power supply	Lithium-ion battery
	<u>,                                      </u>
Lifetime	18 hours typ. (20°C)
Data memory capacity	Up to 10 measuring locations (of 32 vertical profiles each)
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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)

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 unit:	
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)







