Handheld, acoustic water flow, velocity meter for in-stream point velocity measurements

- **Usage Type**
  Spot
- **Measurement range**
  Acoustic
- **Parameters measured**
  Flow velocity, depth
- **Product Highlights**
  Latest state of the art ultrasonic Doppler technology for high accurate velocity measurements. Maintenance free sensor with integrated depth measurement, graphical step by step user guidance and discharge calculation according to ISO 748 and USGS standard
- **Rango de medición**
  -0.2 ... 2.4 m/s
- **Accuracy**
  ± 1% of measured value ± 0.25 cm/s

The OTT Acoustic Digital Current meter (ADC) delivers consistently accurate results with the most advanced acoustic technology available for point velocity measurement. Designed specifically for in-stream velocity measurement, the ADC features a sensor with two 6 MHz acoustic transducers, temperature and depth sensors, and a cable and handheld unit for signal processing.

Technical Data
Legacy product - OTT ADC

Water Velocity Measurement	
Range	-0.2 m/s ... + 2.5 m/s
Accuracy	±1% of measured value ±0.25 cm/s

Sampling volume	
Distance from probe	10 cm
Diameter	1 cm per beam
Length	5 cm

Ultrasonic Transducer	
Acoustic frequency	6 MHz

Absolute Pressure Cell	Piezoresistive
Range	0 ... 5 m
Resolution	0.01 % FS
Accuracy	0.1 % FS
Max. Overload	1.5 of full range

Temperature	Thermistor embedded in probe
Range	-5 ... +35°C
Resolution	0.1°C
Accuracy	±0.5°C

Electrical data	
Data Recording	
Capacity	4 MB
Power supply	9.6 VDC - rechargeable batteries
Operating time	typical 14 hours

Environmental conditions	
Operating temperature range	-20 ... +60°C
Storage temperature range	-40 ... +85 °C

Shock and vibration	Compliant with EN 60068-2-32

Dimensions	
Cylinder	Ø 40 mm x 14.5 cm

Weight

In air	800 g

In water	620 g

Materials	
Probe	Delrin®housing stainless steel