



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

- **Usage Type**
Spot
- **Measurement technology**
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
- **Measurement range**
-0.2 ... 2.4 m/s
- **Accuracy**
 $\pm 1\%$ 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 |

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We reserve the right to make technical changes and improvements without notice. V-06/12/2021
OTT Hydromet GmbH, Germany

