



# AquaProfiler<sup>®</sup> - M

Mobile acoustic flow measurement

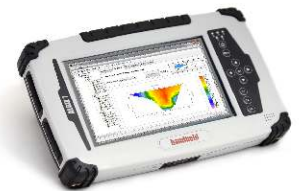
The mobile ADCM-Sensor for use on rod

## Description

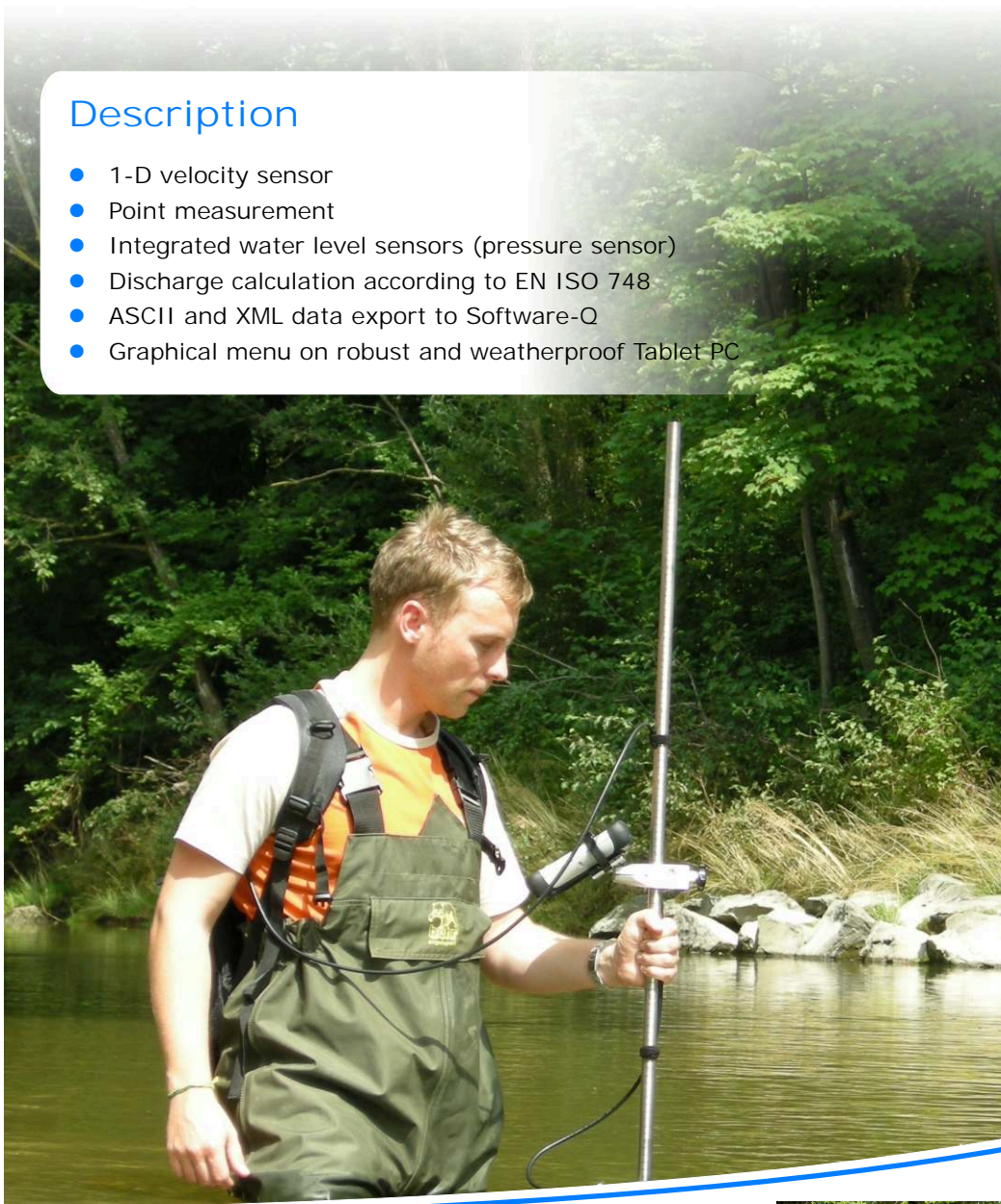
- 1-D velocity sensor
- Point measurement
- Integrated water level sensors (pressure sensor)
- Discharge calculation according to EN ISO 748
- ASCII and XML data export to Software-Q
- Graphical menu on robust and weatherproof Tablet PC



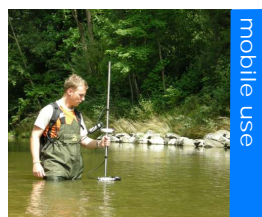
mobile ADCM Sensor  
for use with  
wading rod



Tablet-PC Type  
HDA-Pro



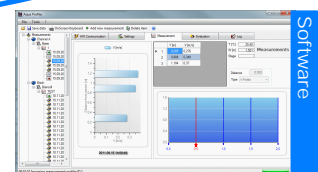
Application in River



Application on rod



Flow Measurement



Software AquaProfiler



## Technical Data AquaProfiler® -M

With our AquaProfiler® -M we offer an acoustic flow meter for measurement of point velocities in open channels (e.g. in rivers, brooks or irrigation channels) useable in water depths of about 2 cm.

It is used for discharge measurements according to the classical method of verticals and is easily mounted to common wading rods like for example the rod of the SEBA Universal current meter F1.

Proven acoustic measurement principles in combination with the most modern procedures of signal analysis guarantee for precise and reliable measurement results. Thanks to the integrated pressure sensor, both current water level at each vertical as well as the immersion depth of the AquaProfiler-M sensor can be measured.



### Velocity Sensor

1-D Doppler Velocity Meter with integrated Water Level and Temperature sensors

Acoustic Frequency: 6 MHz  
Maximum number of cells: 128  
Velocity range: 3 cm/s ... 3 m/s  
Accuracy: 1% of measured value  
                  +/- 0,25 cm/s  
Operation Temperature: 0°C to 50°C  
Dimensions: Ø 30mm, Length: 150 mm

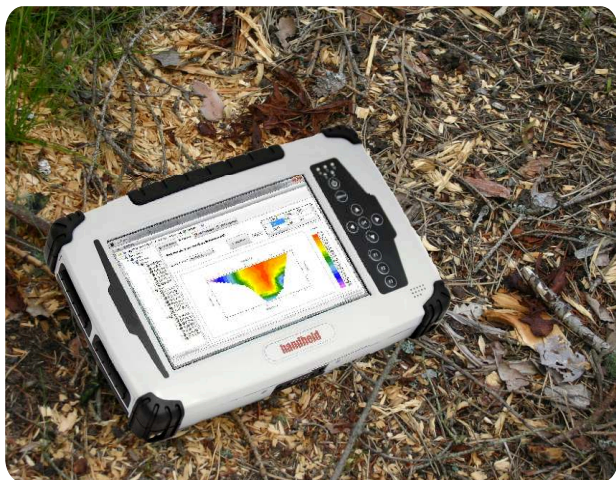
### Water Level Sensor (integrated)

integrated hydrostatic water level  
Range: 0 to 4m  
Accuracy: 0,1% of measured value  
Resolution: 0,01% of measured value

### Temperature sensor (integrated)

Range: -5°C to +40°C  
Accuracy: +/- 0,1°C  
Resolution: 0,1°C

## Technical Data Tablet PC Type HDA-Pro



Operating system: Microsoft Windows 7 Professional  
- 1.6 GHz Processor  
- 2 GB DDR2 RAM;  
- 32 GB SSD Hard Disk  
Display: - 7" widescreen 1024x600 WSVGA  
- readable under sunlight conditions  
- touchscreen - rugged waterproof design  
- integrated speaker and microphone

- integrated **GPS** (WAAS/EGNOS)  
- integrated **digital Camera** 2 Megapixel  
- integrated **Bluetooth** Interface 2.0 & **WLAN**

Dimensions: 140 x 230 x 40 (LxWxH)  
Weight: 1,100 g incl. rechargeable battery  
Protection Class: IP65

Delivered incl. mounting bracket for use with wading rod

## Accessories

Backpack for safe storage of measuring equipment

Fixing Element for rod Ø 20mm

Rechargeable Battery Pack NiMH 4.000 mAh for up to 30 hours operation period & charger



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