

# Stream Gauging Computer

WATER FLOW | SURFACE WATER

## General Description

The **stream gauging computer HydroTab** is an assembly of HydroTab software and an Android tablet suitable **for harsh and wet environments**. It is used for **direct water velocity measurements**, or collecting, calculating, recording, displaying and emailing full river **gauging** data.

HydroTab is more than just a recording current meter counter: It is a gauging computer that **estimates total stream discharge from direct point velocity readings and distance/depth measurements**. Recorded data and calculated results can be emailed back to a central office for further processing.

Utilising **bluetooth** technology, HydroTab communicates directly with HyQuest Solutions' current meter counters CMCbt (see flip side), CMCSp, PVD100, PVD200 and MagnaRod (CMC). Please see website and ask for details.

## Applications

The HydroTab is the device of choice for

- Water velocity point measurements
- On-site total discharge calculation

## Features

- Tablet (Android)
  - Waterproof and shockproof case (IP67)
  - Touch screen with sunlight readable colour display
  - Low power consumption (up to 11 hours of battery life)
- Software
  - Choice of discharge calculation methods: mean section or mid section
  - Setting manager for current meter/fan
  - Metric and imperial units
  - Graphic summary of stream gaugings: velocity per section and profile, calculated values
  - Calibration formulae for unlimited number of fans
  - 1, 2 or 3 calibration functions per fan
  - Up to 100 verticals per site and up to 11 velocity observations on each vertical
  - Languages: English, Spanish
  - Software upgrades available via HyQuest Solutions' website
  - Software available without tablet



## Technical Specifications

### Power Supply

- Battery: rechargeable 4.45 Ah
- Battery life: up to 11 hours
- Charger: mains and car charger

### Mechanical Features

- Dimensions: 130 mm x 230 mm x 14 mm
- Weight: 500 g
- Waterproof case, rating IP67 (submersible to 1 m for 30 mins)
- Shockproof case: can withstand a drop of up to 1.2 m
- Operating temperature: -20 °C to +60 °C
- Humidity: 0-100 %

### Electronic Features

- Processor: min. quad core 1.2 GHz
- Storage: min. 16 GB
- RAM: min. 1.5 GB
- Operating system: Android
- Display: min. 8 inch, high resolution touchscreen
- Bluetooth: min. v4.0 (for communications with current meters)
- GPS
- Camera

### Scope of Delivery

- Standard: tablet and software (optional: software without tablet)
- Not included: current meter counter (e.g. CMCbt, see below)

## Accessories



**CMCbt:** Bluetooth current meter counter that provides an interface between any rotating mechanical current meter and a user interface such as the HydroTab via bluetooth. Small, compact, simple, 100 % waterproof, self-calibrating.



**OSSB1:** The OSSB1 universal current meter is a world recognized instrument for measuring the velocity of water **in open and closed channels**. Made of high grade 316 stainless steel, it is suitable for the most extreme environments.



**OSSPC1:** The OSSPC1 miniature current meter is a world recognised instrument for measuring the velocity of water **in shallow open and closed channels**. Made of durable materials, the OSSPC1 is suitable for extreme environments.



**Red Back:** The RB1 is a **cup-type current meter**. Its advanced contact switching system allows the measurement of water flow in streams, open canals, pipes, and seas to a fine degree of accuracy and repeatability.

### Further equipment & tailor-made solutions

HyQuest Solutions' wide portfolio of water flow / discharge monitoring equipment ranges from actual measurement equipment (mechanical sensors, contact-free sensors) to deployment helps (winches, bridge cranes, outriggers) to towing systems and cable ways. Furthermore, HyQuest Solutions provides tailor-made solutions for specific water flow monitoring applications using a combination of HyQuest Solutions' products, 3rd party components, engineering know-how and hydrologic/hydrometric experience.

Please ask for details.

Reseller

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