# Designed For Reliability...

## WATER FLOW/SURFACE WATER

## General Description

The HyQuest Solutions Point Velocity Display (PVD100) is a small electronic device used to (clean) the signal from a mechanically rotating current meter such as a Price AA or Pygmy meter and directly reads the velocity on the LCD as well as interfacing to a PDA for computation of velocity and discharge. Meters using a cat whisker head and ball and wire contact to perform a mechanical switch closure can be used with the PVD100 to produce a clean, noise-free signal. Whenever the PVD100 is connected to a hand-held computer and the current meter bucket wheel completes a contact closure, the PVD100 can simultaneously produces four responses:

1) Sounds a buzzer tone;

2) Emits a flash from an LED indicator on the front panel,

3) Updates the LCD count and timer, and

4) Transmits a serial data value at 1-second intervals representing the number of contact closures and elapsed time through the serial interface.

the '*' symbol is displayed until the fault condition is removed.

## Features

- Direct Velocity Reading
- Digitally processes and 'cleans' signals from Catwhisker and Magnetic Head Meters

- Operates with two 'AA' batteries
- Works in high conductivity water( > 50,000µSiemens)
- Self contained unit with 2 x 8 character LCD display showing total meter counts and elapsed time
- RS232 Communication Interface (Bluetooth optional)
- Also operates with any Palm, PocketPC, or Field Computer
- Signal Driver for AquaCalc(s), Sutron DMX and HyQuest Solutions CMC Series Meter Counters
- Fully compatible with USGS QCALC Discharge Measurement Software
- Fully self calibrating
- 'Self Test' for Serial Interface setup
- Can be used to adjust Current Meter contacts (measures meter 'Dwell Angle')
- Can display and produce 'Spin Test' record

## Specifications

- Bluetooth®: Class 2 / Output power 2.5mW (4dBm), compliant Bluetooth® Spec V1.1, up to 10m (30ft) range (operating at 2.4GHz)
- Communications: RS232 Port (Tx, Rx) @ 19200 baud 8/N/1
- Connections: 2x Banana plug sockets (Meter input), 1 x DB9 female socket (RS232 + filtered meter o/p)
- Indicators: 8 character x 2 line LCD, 1 x

Orange LED, 1 x Red/Green/Blue LED
- Power Source: 2 x Internal AA alkaline 1.5V batteries
- Low battery indication 2.8V
- Dimensions: 120mm x 80mm x 22mm (L x W x D)
- Weight: 218 grams (with batteries)
- Environmental: -5°C to + 50°C, Non Condensing, IP65





**Model PVD100**
**CURRENT METER COUNTER**

Edition2: 23/5/16