PVD200

Current Meter Counter

Water Flow | Surface Water

General Description

KISTERS' Point Velocity Display PVD200 is a small electronic device for **measuring flow velocity from almost any mechanically rotating current meter**. It shows the velocity on its LCD directly in m/sec or ft/sec. PVD200 **detects signal shorts automatically** and alerts the operator who may decide on repeating the measurement.

The PVD200 can store **up to six current meters,** each with three separate propeller equations. It can also **automatically calculate flow velocities** in metres per second (m/s) or feet per second (ft/s) without the need for reference tables. The PVD200 can receive signals from mag-head or cat whisker-type current meters. The **continuous mode is ideal for using a ground feeler device (GFD),** which allows the riverbed to be detected. Additionally, the PVD200 can **transmit serial data to an external tablet** for discharge calculations, etc., using the internal Bluetooth® interface (where fitted).

PVD200 is very **easy to use** and yet **versatile** enough to offer selections to operate in a wide variety of scenarios and field settings. The equations of the current meters can be entered easily via two push buttons and a backlit graphic LCD. The slow-speed mode supports extremely slow rotating current meters.

Very accurate measurements by cleaning signals and avoiding noise

PVD200 filters and cleans incoming noisy signals from any contact closer, e.g. catwhisker and magnetic head meters. The **very clean, noise-free signals** allow correct counting of the revolutions and thus the more accurate determination of the flow velocity.

Applications

- Water velocity and water flow measurements with current meters in small and big water courses and open channels
- Using counts as input data for discharge calculation
- Digital processing and cleaning of signals from catwhisker and magnetic head meters
- Counting contacts closures or electronic switched pulses

Features

- Works in high conductivity water (>50,000 µSiemens), too
- Robust waterproof enclosure
- Available as neck or top set rod mounted
- Operates with HydroTab tablet
- Fully compatible with USGS QCALC Discharge Measurement Software
- Fully self-calibrating
- Can be used to adjust current meter contacts (measures meter 'dwell angle')
- Can display/produce 'spin test' record
- When used with KISTERS' GFD (Ground Feeler Device): Audible beep by PVD200 when the Columbus weight makes contact with the stream bed







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Technical Specifications

Velocity precision	0.001 m/sec
Resolution	+/-0.1 s
Timing accuracy	+/-0.01 s
Velocity range	– 0.015 m/sec to more than 6.1 m/sec – Slow-speed mode: improves measurements with extremely slow rotating current meters (velocities less than 0.076 m/sec)
Operating conditions	-5 °C to +50 °C, non condensing, IP66+, temporary immersion
Bluetooth® (optional)	Class 2, output power 2.5 mW (4 dBm), compliant Bluetooth® V1.1 (operating at 2.4 GHz)
Connections	2 x Banana plug sockets (meter input)
Visual indicators	– 128 x 64 graphics LCD, backlit – 1 x orange LED, 1 x red/green/blue LED
Power source	– 3 x Internal AA alkaline 1.5 V batteries (not included) – Low battery indication 2.8 V – Hibernation after 5 min
Dimensions and mass	140 x 80 x 50 mm (L x W x D), 400 g with batteries

Accessories



Propeller type Current Meters The KISTERS OSSB1 and OSSPC1 Current Meters are world recognised instruments for measuring water velocity In open and closed channels. Made from High quality Stainless-Steel and Nickle Silver they are suitable for the most extreme and harsh environments.



Wading rods: KISTERS wading rods are offered as model-specific versions, each designed for a particular instrument type—such as the OSSPC1 propeller-type current meter, the Red Back bucket-type current meter, or the SonTek FlowTracker Handheld-ADV. Depending on the model, the wading rod is constructed either from stainless steel or from aluminium.

KISTERS offer a variety of both manual and electronic models, for calculating correct water depth and flow measurements providing an all in one solution when gauging shallow streams. Please contact your nearest KISTERS office to select the correct model to suit your needs.



HydroTab Stream Gauging Computer: Assembly of HydroTab software and a tablet suitable for harsh and wet environments. Used for direct water velocity measurements, or collecting, calculating, displaying and emailing full river gauging data.



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, pressure pipes, lakes and seas to a fine degree of accuracy and repeatability.



Ground Feeler Device GFD: As the name suggest The KISTERS GFD is used in conjunction with our range of manually operated winches and Hornet Cable Way systems to detect the stream bed or ground when stream Gauging. The GFD can be fitted between the Amergraph Cable connector and the gauging weight, and alerts the operator with a constant auditable and visual signal on either the PVD200 or Hornet wireless hand control.

Please ask for details.

Specifications are subject to change without notice. Weights and dimensions are indicative. - © 2018 KISTERS AG | Version: 2025-07

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