

# Miniature Current Meter

Water Flow | Velocity | Discharge | Surface Water

## General Description

The OSSPC1 miniature current meter is a field-proven instrument for **measuring the velocity of water in shallow open and closed channels**. It is used for point measurement of flow velocity in vertical profiles and covers a flow velocity range from 0.025 to 6 metres per second.

The OSSPC1 body is made from corrosion resistant nickel silver with anodised aluminium propellers. It is designed for use in the **most extreme environments** and, when properly maintained, is intended for **long-term, trouble-free operation** under normal use.

KISTERS' current meters are modular systems: You can tailor the perfect solution for your application with a choice of several propellers, rods, accessories, etc.

KISTERS offers the full range of equipment required for successful stream gauging.

**Please contact us for advice.**

## Applications

The streamlined and robust assembly of the body and propeller make the OSSPC1 especially suitable for manual discharge measurements in wadable flowing water. Thanks to its low start velocity of only 0.025 metres per second, the OSSPC1 provides accurate velocity measurement in very slow flowing water.

## Features

- **Corrosion-resistancy:**
  - Body: nickel silver
  - Propellers: anodised aluminium
- **Precise and reliable measurements:** Encapsulated magnetic reed switch ensuring reliability and a 'clean' contact signal
- **Direct results:** Direct display of velocity or number of revolutions with KISTERS' counters or the paperless stream gauging tablet (see reverse)
- **Easy deployment** on standard wading rods (supplied with standard kit) and top set wading rods



### Alternative model for deeper waters

The KISTERS universal current meter OSSB1 is used for point measurements of flow velocities on the water surface or in vertical profiles down to the riverbed at flow speeds of 0.025 m/s to 10 m/s. Deployment: mounted on wading rod, from a bridge/boat using winches and outriggers, or deployed using the **KISTERS Hornet Plus** cable way system.

## Technical Specifications

**Accuracy** +/-1%

**Calibration**

- Each current meter is individually calibrated in accordance with ISO 3455: 2021
- Compliant with AS 3778.6.1:2022 and ISO 2537:2007
- Calibration certificate provided with each current meter

### Fan/propeller specifications

(The choice of fan/propeller depends on the specifics of the site such as discharge and the geometry of the riverbed or channel. Please contact us for advice.)

Propeller No.	Diam. x Pitch	Start velocity (m/sec)	Max. velocity (m/sec)	Component effect
1	50 mm x 0.05 m	0.025	2	+/-30 °
3	50 mm x 0.25 m	0.035	6	+/-10 °
5	30 mm x 0.05 m	0.05	2	+/-20 °

### Scope of delivery (basic kit)

In durable waterproof carrying case with custom foam insert:

- Propeller types 1 and 3 (an additional type 5 propeller is available)
- 2.5 m connecting lead
- Tightening bar tools
- Body key tool
- Oil
- Spare bearings
- E-clips
- Propeller O-rings
- Rod: 1.5 m (3 × 0.5 m), 9.5 mm diameter complete with ground plate

### Packed dimensions and mass

Kit in carrying case: 480 × 440 × 170 mm; 4.8 kg

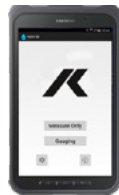
## Accessories



### Current Meter Counter PVD 200:

Features: waterproof enclosures, simple

button controlled menus, embedded LCDs and beepers to make counts audible. Preset or manually stopped sampling period. Improved accuracy due to signal conditioning. Bluetooth® interfaces for use with HydroTab Stream Gauging Computer available.



### HydroTab Stream Gauging Application:

Fully 'paperless' system consisting of HydroTab tablet and software for water velocity measurements and calculation of total stream discharge.



### Wading Rods:

Top-setting wading rods specially designed to simplify measurements in shallow waters and low currents. Includes mount for KISTERS PVD200 digital counter.

[Please ask for details.](#)

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