OSSPC1

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 fans. It is suitable for use in the most **extreme environments** and has been designed for lifetime trouble-free operation under normal use when properly maintained.

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

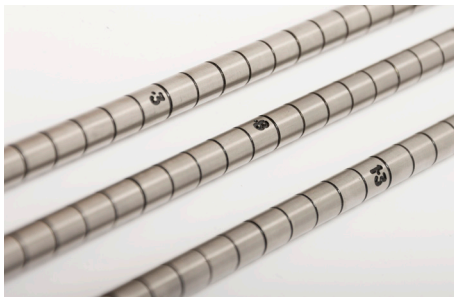
The full range of equipment needed for successful stream gauging is available from KISTERS.
Please contact us for advice!

Applications

The streamlined and robust assembly of the body and fan 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
  - Fans: 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 HyQuest Solutions' counters or the paperless stream gauging tablet (see flip side)
- **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 on cableways.

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Technical Specifications

Accuracy	+/-1 %
Calibration	– Each fan is individually calibrated in KISTERS' rating tank. – Compliant with ISO 3455:1976 and ISO 2537:1988 – Calibration certificate delivered with each fan

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.)

Fan 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	0.034	6	+/-10 °
5	30 mm x 0.05 m	0.040	2	+/-20 °

Scope of Delivery (basic kit)	– OSSPC1 body, calibrated fans 1 and 3 – 2,5 m connecting lead, tools, oil, spare bearings, spare reed switch assembly – Rod: 1.5 m (3 x 0.5 m), 9 mm diameter with base plate – Carry case (durable waterproof case)
Packed Dimensions & Mass	Kit in carry case: 500 x 400 x 200 mm; 6 kg

Accessories

Current Meter Counters: 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.

Top Set Wading Rods: A range of top setting wading rods as an accessory for wading discharge measurements. Suitable for OSSPC1, Redback and SonTek Flow Tracker products.
Please ask for details.

Reseller

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