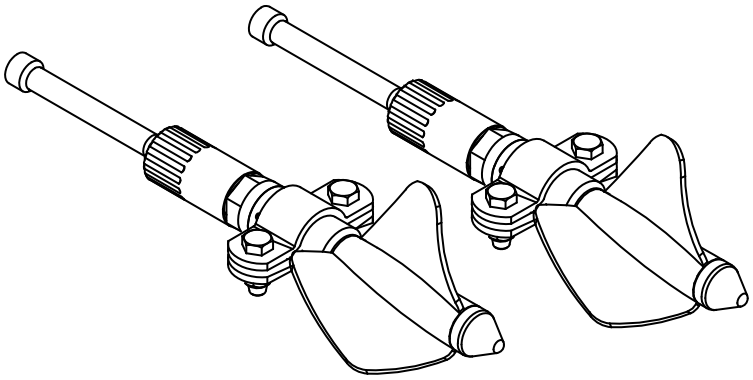


FLOW METER SET

OPERATION MANUAL

Product ID 450 586

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GENERAL DESCRIPTION

This option for the Multi Parameter Probe consists of 2 electronic flow meters for flow velocity and volume measurements, making the MPP the ideal instrument to be operated with single-ring plankton nets (e.g. Ring-Trawl-Net) as well as double-ring plankton nets (e.g. Bongo-Net).

STANDARD EQUIPMENT

1. 2 Electronic flow meters
2. 2 Mounting clamps
3. 2 Connection cables MCIL2F-200-ILS2M-1 and MCIL2F-200-ILS2M
4. 1 Dummy connector SUBCONN DCS 2 M
5. 1 Dummy connector SUBCONN DCS 2 M-1
6. 1 Operation manual

TECHNICAL DATA

Flow meter type:	hydrometric vane
Range:	0.1 … 9.9 m/s
Resolution:	0.01 m/s
Accuracy (0..50°C):	±1 % (0.5 … 9.9 m/s)
	±5 % (0.1 … 0.5 m/s)

Volume measurement:

Range: 0.0 … 10000.0 m^3

(The volume will display "---" until a net opening value (m^2) has been entered by the user.)

MOUNTING THE FLOW METERS

- Use the mounting clamps to mount the flow meters in the nets.
- Make sure they are centered and their rotational axis is perpendicular to the net opening.
- Connect the Flow Meters to the instruments' connector (BH 4 F).
    - In case only one Flow Meter is to be used, the remaining open sockets have to be sealed with the corresponding half of the split dummy connector and secured with the locking sleeve.
- Set the net opening area of each net in the Command Unit:
    - Press the soft button next to the **Volume 1 / Volume 2** reading.
    - Press the soft button next to **Edit net opening**.
        - *Alternatively the net opening can be set in OceanLab using the Controlling mode and then click on **Volume 1 / Volume 2**.*
        - *The net opening can also be set after deployment when viewing a recorded file on the PC. This is useful in case someone forgot to set the net opening before deployment.*

MAINTENANCE

The flow meters need just a little care. Before operating the probe make sure that the impellers can rotate freely. In case of increased friction unscrew the nose piece from the flow meter and rinse axle and impeller with fresh water. Heavier fouling can be removed by soaking axle and impeller in warm fresh water.