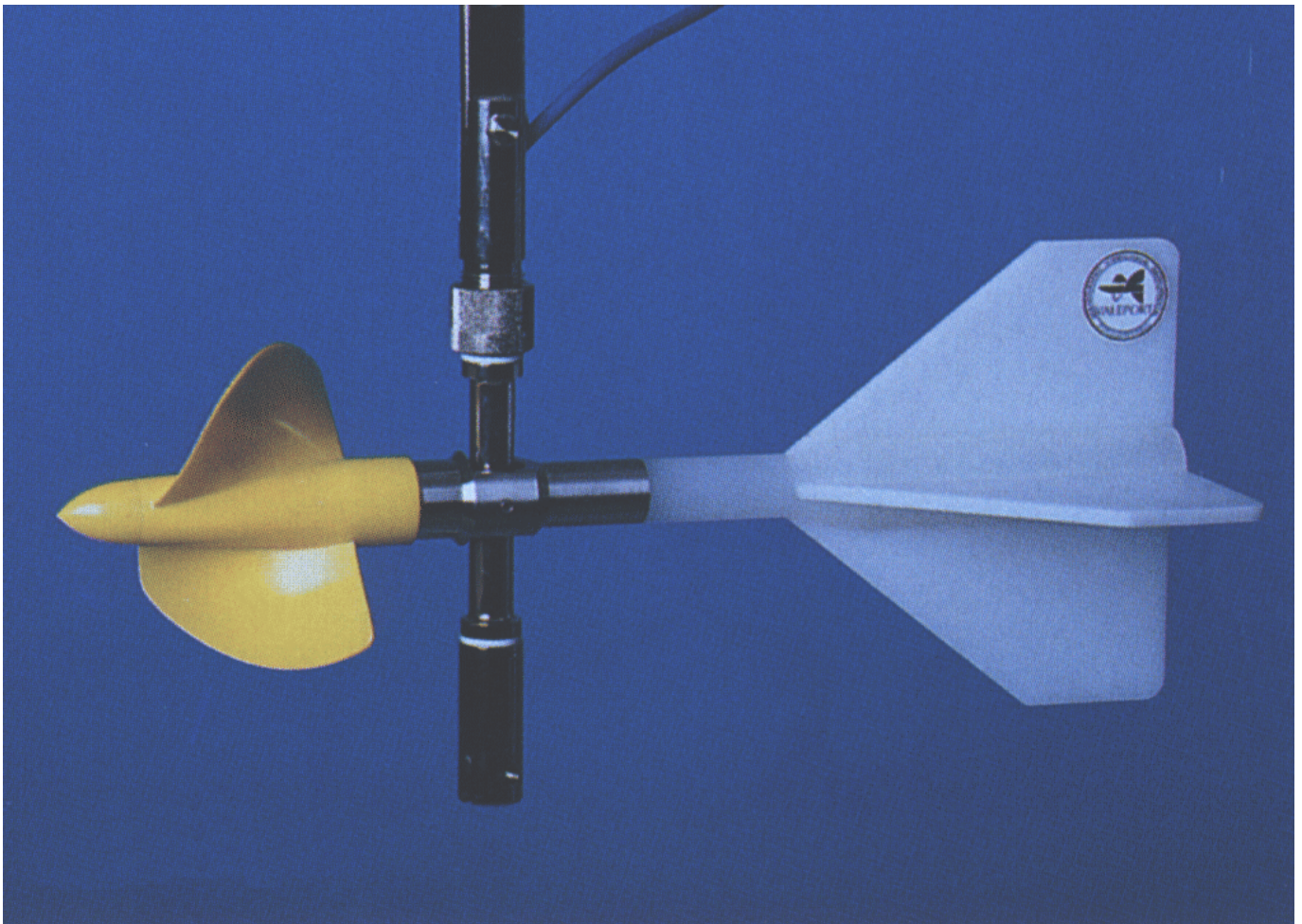


Self Aligning Flow Meter

BFM007



FEATURES

- Rugged, low maintenance design
- Reliable, accurate velocity sensing
- Wide measuring range
- Simple in operation
- Calibrated according to BS3680
- Freely rotates through 360°

DESCRIPTION

The BFM007 Self Aligning Flow Meter is specifically designed for long term flow measurements in tidal environments, where the direction of the flow is not stable for long periods of time.

Using the same impeller as Valeport's renowned BFM001 Open Channel Flow Meter, the BFM007 is made with a nickel plated brass body and a polypropylene tailfin. The unique suspension assembly allows the meter to freely rotate about 360° whilst maintaining the magnetic contact closure pulse mechanism.

The design of the impeller prevents it filling with silt and weed once it has filled with water, and the PTFE radial bearings and jewelled main thrust bearing gives low threshold and consistent performance.

The meter is supplied with a 50m polyurethane sheathed signal cable, which has an integral kevlar strain member to give a breaking strain of 100kg.

Finally, the meter is also supplied with the Model 0012B Control Display Unit, as described overleaf.

Self Aligning Flow Meter

BFM007

MODEL 0012B CONTROL DISPLAY UNIT

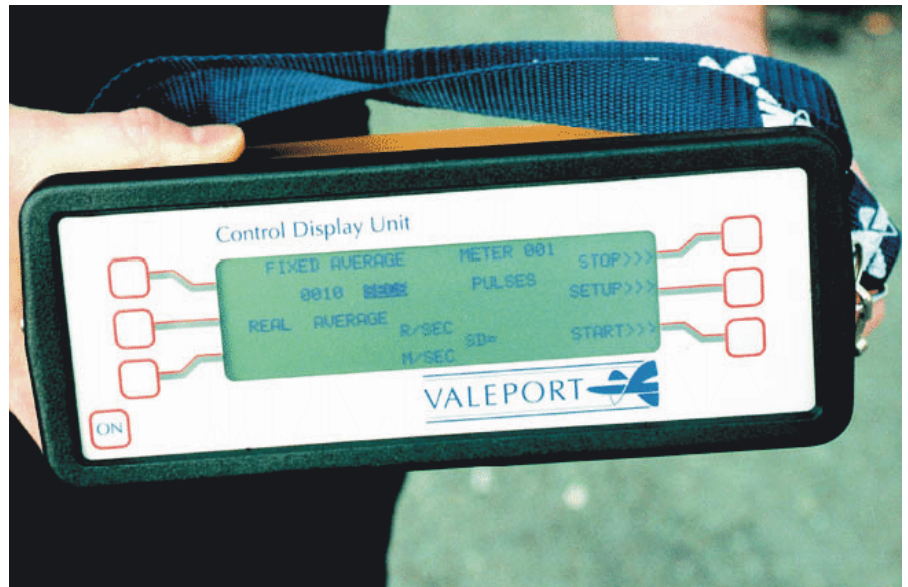
The BFM007 is supplied as standard with the Model 0012B Control Display Unit (illustrated). This unit offers real time and averaged display of velocity, display of standard deviation, and a choice of average modes and average periods. The display is a backlit LCD graphics display, and the box itself is sealed to IP67 (10 secs at 30cm). Running on 8 x standard alkaline C cells, the display will run for over 40 hours in continuous use.

The unit is also fitted with a memory facility which allows data replay on the screen, or download to PC via the optional interface lead.

CALIBRATION

The 8011 Series impeller fitted to the BFM007 has been group calibrated by HR Wallingford, UK, to British Standard BS3680, Part A, 1973. This means that impellers can be changed at any time without the need for recalibration. The group calibration of the 8011 impeller is accurate to +/- 1.5% of measured velocity.

Specific calibration of any impeller can be arranged at HR Wallingford, if necessary.



SPECIFICATIONS

Range:
0.03 to 10m/s

Accuracy:
+/- 1.5% reading above 0.15m/s
+/- 0.004m/s below 0.15m/s

Resolution:
Display Resolution is 0.001m/s

Impeller:
125mm diameter by 0.27m pitch

Shipping Size:
Approx: 75cm x 55cm x 33cm

Shipping Weight:
18kg

ORDERING

BFM007 Suspension Set comprises the following items:

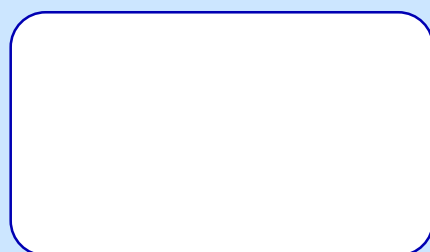
- 0007001 Flow meter fitted with 125mm diameter impeller, and polypropylene tailfin.
- 0007002 50m conductor/suspension cable fitted with reed switch and bulkhead connection
- 0001012 Control Display Unit
- 0007004 Carrying Case
- 0007800 Operating Manual

Option:
0001039 Interface lead and software for download of logged data to PC.

VALEPORT 

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As part of our policy of continuing development, we reserve the right to alter, without notice, all specifications, designs, prices and conditions of supply of all equipment.

BFM007 조립 형태 (Self Aligning Mode)

