

# WATER FLOW | DISCHARGE WATER VELOCITY MEASUREMENT

Instruments



An ISO 9001:2015 Company

## CUP TYPE WATER CURRENT METER (VERTICAL AXIS)

### Model BHM-H-CM2 | River, Canal & Open-Channel Velocity Measurement

The Balaji HydroMet BHM-H-CM2 is a precision six-cup current meter for rivers, streams, canals and irrigation channels. One pulse is generated per revolution and converted into water velocity using the supplied calibration equation.



**0.015 m/s**

Starting velocity

**0.30-3.50 m/s**

Operating range

**±0.5% FS**

Above 0.30 m/s

## TECHNICAL SPECIFICATIONS

Parameter	Specification
Brand	Balaji HydroMet (BHM)
Model	BHM-H-CM2
Standard Reference	IS 3910:1992
Type	Vertical Axis Cup Type Water Current Meter
Bucket Wheel	Six hollow conical cups on brass star-shaped frame
Body Material	Chrome-plated brass
Spindle Material	Stainless steel
Sensor Type	Magnetic reed switch / fibre-optic option
Contact Output	One pulse per complete revolution
Starting Velocity	0.015 m/s
Operating Range	0.30 m/s to 3.50 m/s
Accuracy	±1% FS up to 0.30 m/s; ±0.5% FS above 0.30 m/s
Bucket Open-End Diameter	2.0 inch
Bucket Diameter	0.5 inch
Spin Test Rating	Greater than 75 seconds
Output Signal	Pulse output
Flow Alignment	Tailpiece assembly for automatic alignment
Deployment	Wading rod, suspension cable, fish weight, bridge or overhead arrangement

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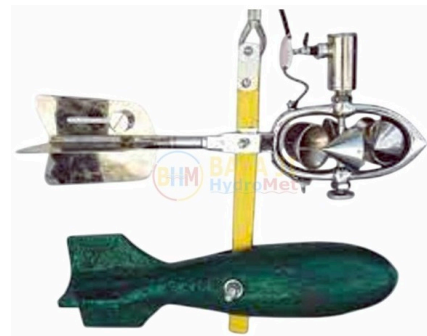
## COMPLIANCE, CALIBRATION & FIELD CAPABILITY

The BHM-H-CM2 is manufactured for mechanical current-meter applications and is referenced to **IS 3910:1992**. It supports velocity-area discharge measurement workflows used for rivers, canals and open channels. The instrument is supplied with an individual calibration equation and calibration certificate, allowing measured revolutions to be converted into water velocity. It can be used with wading rods, suspension cables, hydrometric fish weights, bridge arrangements, digital revolution counters, velocity indicators and data loggers. For procurement or project submission, final compliance should be confirmed against the purchaser's exact technical schedule, required calibration authority, inspection procedure, environmental conditions and documentation format. Optional configurations or accessories should be listed separately in the commercial offer when requested.

### COMPLETE FIELD KIT



### SUSPENSION / FISH-WEIGHT SETUP



## STANDARD SUPPLY

- BHM-H-CM2 Cup Type Water Current Meter
- 1.20 metre wading rod with centimetre graduation
- 10 metre signal cable from meter to counter / indicator
- 10 metre suspension cable
- 10 kg cast-iron fish weight
- Calibration certificate and calibration equation
- Instrument oil, cleaning cloth and screwdriver set
- User manual and carrying / storage arrangement

## APPLICATIONS

- River velocity measurement
- Stream flow and discharge measurement
- Canal and irrigation-flow monitoring
- Open-channel flow measurement
- Hydrological surveys and stream gauging
- Reservoir inflow and drainage studies
- Hydraulic laboratories and research projects
- Flood and watershed monitoring
- Government water-resource departments