

WATER FLOW | DISCHARGE WATER VELOCITY MEASUREMENT

Instruments



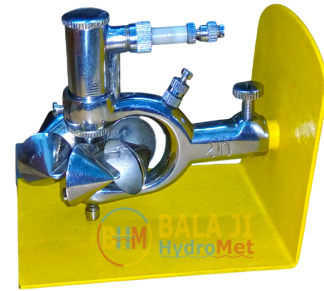
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PYGMY TYPE WATER CURRENT METER

MODEL BHM-H-CM3

Shallow Stream, Irrigation Channel & Hydraulic Model Velocity Measurement

The **Balaji HydroMet BHM-H-CM3** is a highly sensitive pygmy current meter for shallow streams, irrigation channels, minor canals and hydraulic models. Its six-cup assembly produces one contact per revolution, while the supplied **DVI-V1** displays water velocity directly in **m/s**.



0.015 m/s

Starting velocity

0.10-1.50 m/s

Operating range

±0.5% FS

Above 0.30 m/s

TECHNICAL SPECIFICATIONS

Parameter	Specification
Brand	Balaji HydroMet (BHM)
Model	BHM-H-CM3
Standard Reference	IS 3910:1966
Type	Pygmy Type Water Current Meter
Current Meter Body	All brass parts, chrome plated
Bucket Wheel	Six hollow conical cups on a brass star-shaped frame
Contact System	Magnetic or fibre-optic contact chamber
Contact Output	One contact per complete revolution
Starting Velocity	0.015 m/s
Sensor Stated Range	0.015 m/s to 0.90 m/s
Operating Range	0.10 m/s to 1.50 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
Typical Use	Shallow streams, irrigation channels, minor canals and hydraulic models
Deployment	1.20 m graduated wading rod or overhead suspension arrangement
Velocity Readout	DVI-V1 Direct Velocity Indicator / Logger

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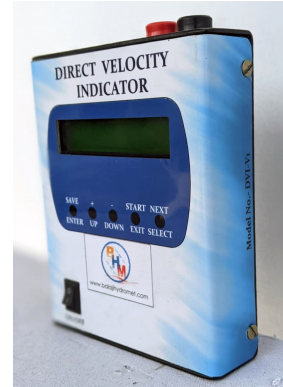
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DIRECT VELOCITY INDICATOR / LOGGER - DVI-V1

The **DVI-V1** is a portable microcontroller-based direct velocity indicator and logger supplied with the BHM-H-CM3. It receives the pulse output from the pygmy current meter, applies the calibration equation and displays the water velocity directly in **m/s**. This handheld unit is suitable for **stream gauging, canal flow monitoring, hydrological surveys, low velocity flow measurement** and hydraulic laboratory observations.



DVI-V1 TECHNICAL SPECIFICATIONS

Parameter	Specification
Display	16 x 2 LCD
Power Supply	2 x AA batteries
Velocity Resolution	0.01 m/s
Maximum Velocity Display	99.99 m/s
Data Storage	100 readings
Memory Type	EEPROM, non-volatile
Battery Backup	Up to 240 hours
Leakage Current	< 1.5 microampere in switch-off condition
Averaging Time	1 to 120 seconds, user selectable
Keypad	5-key membrane keypad
Data Retrieval	Through keypad / display menu
Technology	AVR microcontroller, RISC architecture
Calibration Equation	User-programmable multiplier and constant



APPLICATIONS & STANDARD SUPPLY

APPLICATIONS

- Shallow stream velocity measurement
- Minor canal and irrigation-channel monitoring
- Low-velocity open-channel flow studies
- Hydraulic model and laboratory measurements
- Hydrological surveys, discharge studies and training work
- Water-resources field monitoring and educational use

STANDARD SUPPLY

- BHM-H-CM3 Pygmy Type Water Current Meter
- Direct Velocity Indicator / Logger DVI-V1
- 1.20 metre wading rod graduated in centimetres
- 4 metre connection cable between meter and DVI-V1
- Instrument oil, cleaning cloth and screwdriver set
- Operating instructions and carrying arrangement