



## LAKSHMI ENGINEERING WORKS

**Mfg & Supp of:** Soil, Cement and Concrete Testing Equipment, Survey, Drawing, Hydrological, Metrological, Geological, Scientific Instruments **(All type of Water Current Meters)**

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### PROPELLER TYPE WATER CURRENT METER

The Propeller Type Water Current Meter is used to measure Velocity of water flow directly in m/s. The stainless-steel spindle carrying the cup wheel freely rotates in the bearing assembly. The magnet and reed switch assembly produces one pulse per rotation. The rotation of the Water Current Meter is sensed by sensor & gives pulsed output signal. As per IS: 3910-1966, the Water Current Meter employs a bucket wheel assembly that is mounted upon a shaft and rotates in response to fluid flow, generating a signal that is proportional to the fluid flow velocity. The current bucket wheel assembly is made of plated brass. It employs six hollow conical cups that are hand formed from sheet metal and individually soldered to a brass, star-shaped frame. The finished unit is then plated. The frame is shaped so that a strut connects the apex of each cup to the outer diameter of the following cup around the frame. The Propeller Type Water Current Meter can be suspended by means of a Fish weight while wading a stream, or by a cable and wading rod from an overhead structure. A tailpiece assembly assures proper alignment of the meter to water flow when suspended by a cable. Velocity is determined by counting the number of revolutions of the bucket wheel over a given period of time. Revolutions can be monitored by several means. The Digital Water Velocity Indicator / Logger (sold extra) by configuring the indicator with calibration equation (provided with each meter), it will result the direct current velocity of the stream in Meter per second. The meter is made from brass and stainless steel and all exposed surfaces are chrome plated for corrosion- free service. Each Current Meter is provided with a standard rating table to convert bucket revolutions to stream velocity in Metric units (meters per second), spare parts, instrument oil, cleaning cloth, screwdriver and a rugged carrying case.

- Make **LAKSHMI ENGINEERING WORKS(LEW)**
- Model 4 Blade Propeller Type Water Velocity Meter
- Current meter body All parts of brass, chrome plated
- Operating Range 0.1 to 3.5 meter per second
- Accuracy For Velocities >0.3 m/s, 0.5% Full scale
- Velocity Indicator Digital Water Velocity Indicator (Optional) / Digital Counter
- Contact chamber Magnetic
- Dimension Propeller assy length 4.5-inch,  
Blade length 3-inch,  
width 1.7-inch,  
Open frame width 5- inch
- Instrument case & Accessories Suspension Wading Rod 1.2 Mtr.  
Fish weight 10kg.  
Suspension Steel wire rope 15-meter  
Electric Cable 15 Mtr (2 core)  
Flate Steel Rod  
Cleaning Cloth  
Instrument Oil  
Screwdriver Nut Bolt,  
U- Clamp, Plumb bob with adopter plug  
Packing with 2 set wooden box for carry



Protected with trial version of Visual Watermark. Full version doesn't put this mark.

## LIST OF EQUIPMENTS AVAILABLE WITH US:

- Automatic Weather Station
- Digital Rainfall Recorder
- Digital Rain Gauge
- Digital Evaporation rate recorder
- Automatic Soil Erosion Monitoring System
- Digital Snow Water Equivalent recorder
- Digital Solar Radiation Recorder (Pyranometer)
- Digital Water level Recorder
- Digital Water level Recorder (Pressure type)
- Digital Water level Recorder (Ultrasonic type)
- Water velocity indicator without sensor
- Water Current Meter
- Soil moisture indicator with sensor
- Soil moisture and temperature recorder
- Leaf Wetness, Air temperature and Humidity recorder
- Plant Canopy Analyzer
- Suspended Solids Indicator
- Digital Soil Tensiometer
- Soil Infiltration Meter
- Water Level Indicator
- Cup Counter Anemometer (Mechanical Type)
- Wind Vane (Mechanical Type)
- Open Pan Evaporimeter
- Ordinary Rain Gauge
- Tree Height Gauge
- Stevenson Screen (Single)
- Stevenson Screen (Double)
- Aneroid Barometers
- Sunshine Recorder
- Punjab type Silt Sampler
- Winch (80 Kg)
- Maximum - Minimum Thermometer
- Wet & Dry Thermometer
- GPS
- Temperature and humidity sensor
- Wind speed sensor
- Wind direction sensor
- Rainfall sensor
- Water temperature sensor
- Soil temperature sensor
- Solar radiation sensor (Silicon)
- Atmospheric pressure (Barometer) sensor
- Water level sensor (Shaft encoder)
- Water level sensor (pressure)
- Water level sensor (Ultrasonic)
- Evaporation sensor
- Soil moisture sensor
- Snow Water Equivalent (Snow Gauge)
- Leaf Wetness sensor
- Digital Soil Tensiometer sensor