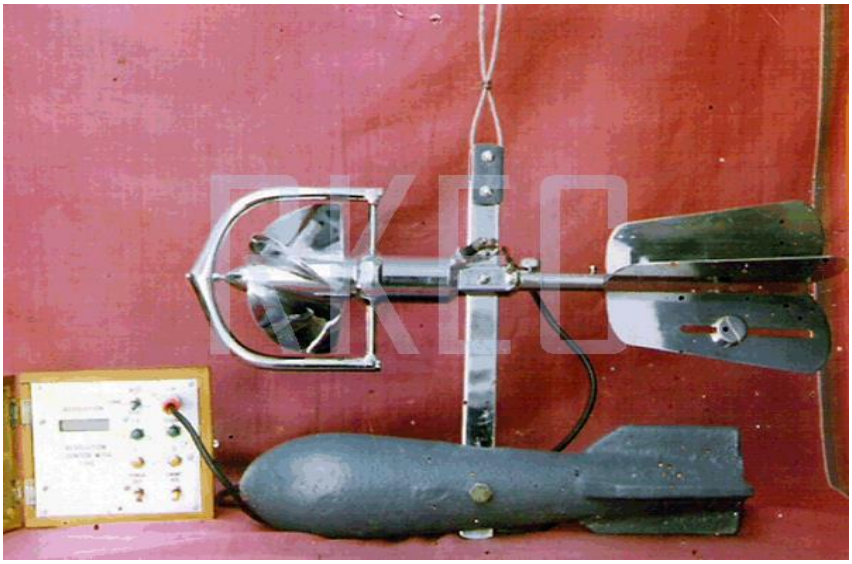
Water Velocity Measuring Instruments

Propeller Type Water Current Meter (RK-01)

The **"RKEC"** make propeller Type Water Current Meter **(RK-01)** is used to measure velocity of the water flow directly in m/s. The Stainless Steel spindle carrying the propeller freely rotates in the spindle 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.



Specification

Model	Propeller Type (RK-01)
Current Meter Body	All Part of Brass, Chrome Plated
Operating Range	0.3 to 3.5 meter per second
Accuracy	For Velocity >0.3 m/s 0.5% full scale
Velocity Indicator	A Digital velocity indicator/logger
Instrument Case and Accessories	➢ Instruments Oil ➢ Cleaning Cloth ➢ Screw Driver with 10 Kg fish Weight ➢ 10 meter Suspension wire ➢ 120 cm wadding rod. ➢ Tie/Suspension Bar 30 cm long

Propeller Type Water Current meter as per IS 3910. Stream flow velocities are measured from **0.3 to 3.5 meters per second.**

Water Velocity Indicator/Logger DVI-v1

Introduction: -

"RKEC" DVI (microcontroller) has been designed to measure the Velocity of water in flowing stream. It can be used with any calibrated Water Current Meter. We are simply to enter the calibrated equation provided with water current meter and take the water velocity on the 16 x 2 LCD display. Two terminals to connect the different types to current meters sensor are provided on the top.

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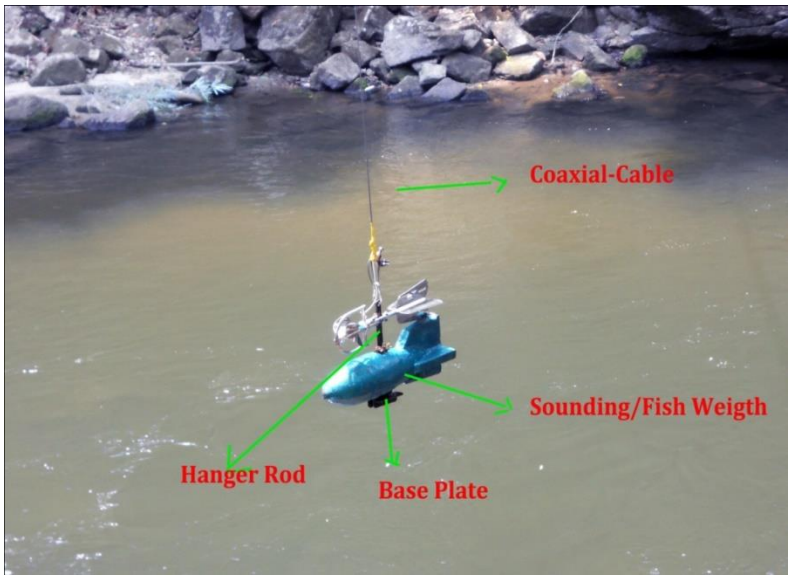
Specification

1. Power Supply by two “AA” type Battery.
2. A keypad 5X1 dome type membrane.
3. A Resolution of 0.01 meters/sec
4. A velocity range 99.99 meters/sec
5. The back time up to 240 hours.
6. The leakage current of <1.5 micro amp (Switched off)
7. The Facility of Data Retrieval through Keyboard.

Feature

1. Microcontroller Base: AVR
2. Storage for 100 reading, store in EEPROM (remains intact even if battery remove)
3. Retrieval of data through keyboard, Programmable current meter equation with storage.
4. Programmable (+ve to –ve) for constant in equation
5. Range of multiplier : 0.0001 to 1.0000
6. Range of Constant : 0.0000 to 0.9999
7. Programmable averaging time (1 to 120 sec)
8. Portable Handheld easy to use.
9. Battery status indicates on LCD at the of starting.
10. Menu driven programmable function through keypad.
11. Technology: RISC/low power consumption.
12. On/off switch provided.

Taking Discharge through Fish Weight Method



There is three type of fish weight such as below

1. 10 kg (Cast Iron)
2. 25 kg (Cast Iron)
3. 50 Kg (Cast Iron)