# PADV-60 Ultrasonic Doppler Velocimetry

## Introduction

PADV-60 Ultrasonic Doppler Velocimetry is a flow meter based on the principle of Doppler effect. The measuring point is in front of the probe, does not destroy the flow field.

With high measuring accuracy, wide range, fast response speed and so on. Internal integrated pressure sensor and temp. sensor, set velocity, liquid level, temp., flow measurement in one. Suitable for open channel, river, drainage pipe network and all kinds of full pipe, not full pipe flow rate measurement.



## Features

- Integration design, small size.
- RS485 communication, Modbus RTU communication protocol
- No mechanical moving parts, there is no sediment jam or aquatic plants, sundry winding
- Application range is wide, can be used for unattended long-term on-line monitoring;
- High measurement precision, wide range, responsive, high resolution.

## Application

- Municipal water supply and drainage, sewage discharge.
- Water loss/infiltration, irrigation process monitoring.
- Culvert process, roads drainage, river flow monitoring.
- Flood disaster monitoring.

## Technical Specifications

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| **Velocity range** | -10-10m/s (Customizable) |
| **Velocity accuracy** | ±1- 3% (Affected by the site working environment, the measurement accuracy changes) |
| **Velocity resolution** | 1mm/s |
| **Water level range** | 0.02-10m |
| **Water level accuracy** | ±3cm |
| **Bathymetric resolution** | 1mm |
| **Operating temperature** | 0-60℃（Non-freezing state） |
| **Temperature resolution** | 0.1℃ |
| **Storage temperature** | -20-80℃ |
| **Working environment** | Sediment content: <20g/L; PH: PH value is between 6 and 8. |
| **Communication protocol** | Standard ModBus RS485 protocol |
| **Power supply range** | 10-30VDC |
| **Power consumption** | 1W±0.1W (12V power supply)，1.5W±0.1W (24V power supply) |
| **Working current** | ≤100mA |
| **Material** | Nylon+Fiberglass |
| **Protection class** | IP68 |
| **Weight** | 2.5KG including Cable (Standard 20m cable) |
| **Dimension** | 207.5*105*37.5mm（L*W*H） |



Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com