

## ● Vertical-average Ultrasonic Velocity Meter - Reflective Beam Type(UC-01VRP)



### 1. Discription

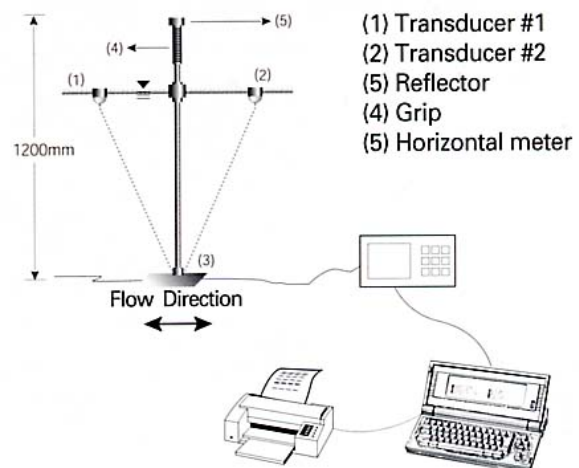
A portable ultrasonic velocity meter that measures the vertical mean velocity from the bed to the surface at one time to improve the accuracy

### 2.Measurement Principle

It measures vertical average velocity from the bed to the water surface at one time using time difference that occurs when the ultrasonic beams are transmitted in the flow direction and the opposite direction simultaneously. This method solved accuracy problems of conventional velocity meters that measure the velocities at different depths at different time to find the average velocity.

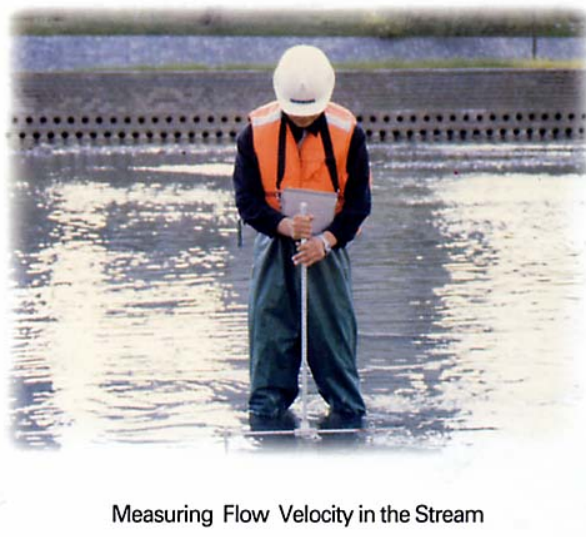
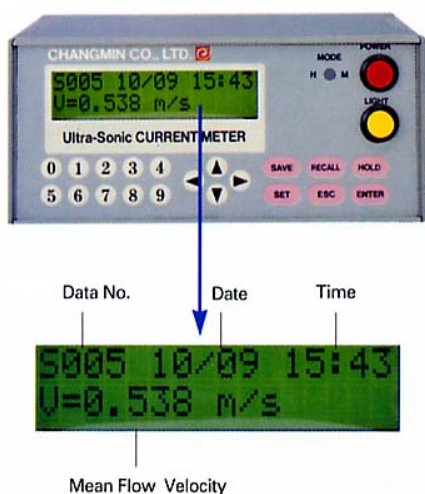
### 3.Features and Applications

- a. Measurement of the mean velocity at one time leading to higher accuracy
- b. Minimization of the measurement error by sensing supercritical and vortex components
- c. Reduction of the measurement time up to 1/100
- d. Availability as a calibration device for the flow meter in the open channel
- e. Warranty  
One year full labor and parts.
- f. Price  
Very competitive.

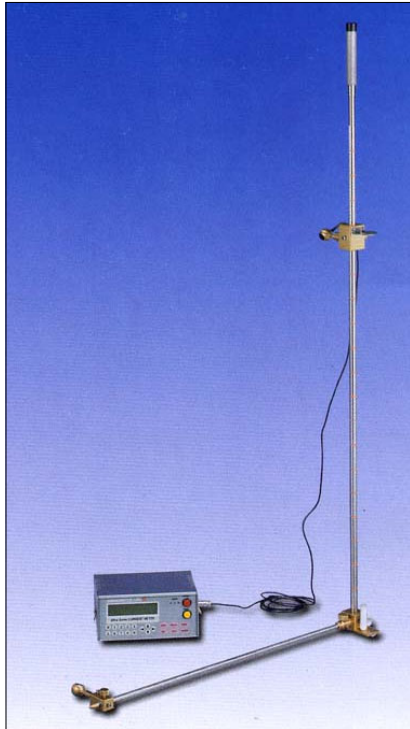


## 4.Dimension

Depth Range	0.1m ~ 1.2m
Measurement Range	0.01m/s ~ 10m/s
Measurement Error	0.01m/s ~ 0.1m/s : $\pm 1\%$
	0.1m/s < V $\leq$ 10m/s : $\pm 0.5\%$
Memory	500 data
Power Source	Rechargeable Battery
Measuring Time Interval	1 ~ 99 sec
Cosine Components	$\pm 90^\circ$ sensing ( $\cos \alpha$ )
Accessories	
Signal Cable	6m $\times$ 2P within connector
Charger Adapter	DC 12V



## ● Vertical-average Ultrasonic Velocity Meter - Direct Beam Type(UC-02VP)

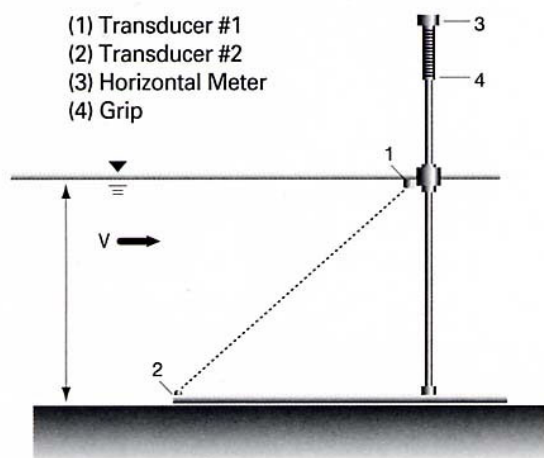


### 1. Discription

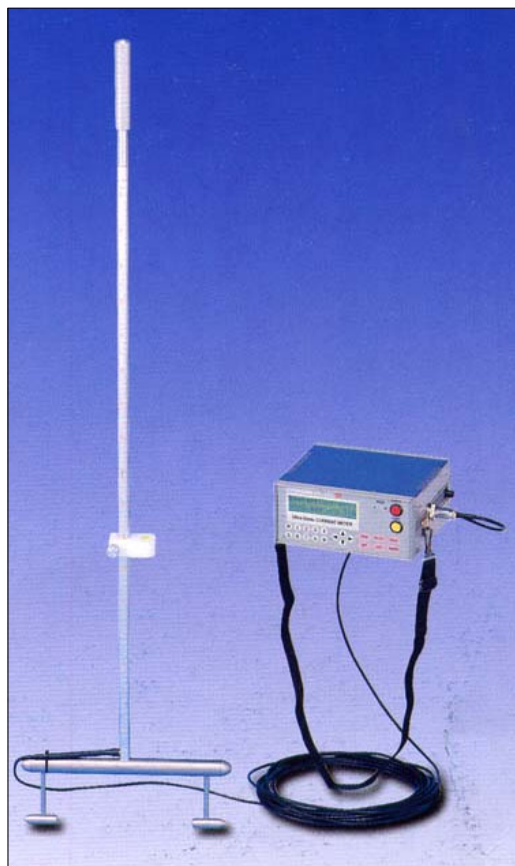
This portable velocity meter is used for the velocity distribution study and for the H-Q curve correction. It can also add depth meter function. This meter can accurately and conveniently measures the velocity in the shallow stream unlike conventional velocity meters.

### 2. Dimension

Depth Range	0.05m ~ 1.0m
Measurement Range	0.01m/s ~ 10m/s
Measurement Error	0.01m/s ~ 0.1m/s : $\pm 1\%$
	0.1m/s < V $\leq$ 10m/s : $\pm 0.5\%$
Memory	500 data
Power Source	Rechargeable Battery
Measuring Time Interval	1 ~ 99 sec
Cosine Components	$\pm 90^\circ$ Sensing ( $\cos \alpha$ )
Accessories	
Signal Cable	6m $\times$ 2P within connector
Charger Adapter	DC 12V

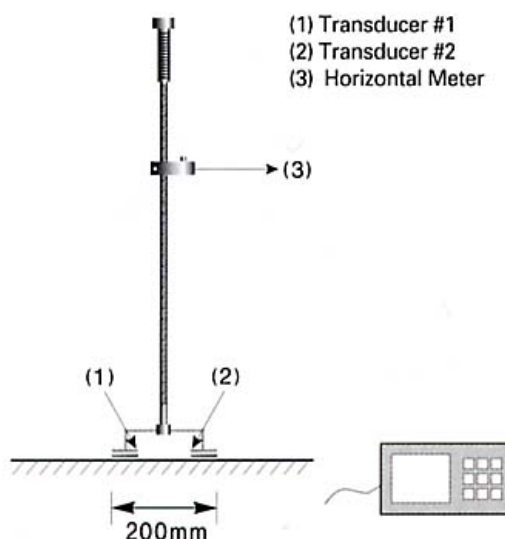


## ● Ultrasonic Point Velocity Meter(UC-01L)



### 1. Discription

This meter measures velocities at various points formed by topographical differences. It maximized the measurement accuracy with ideal  $\cos \alpha$  property ( $\alpha = \pm 90^\circ$ ) and automatic sensing of angles when the meter axis inclines to the flow direction or the velocity increases on the slope.



### 2.Dimension

<b>Depth Range</b>	Standard 0.1m ~ 1.0m
	Suspending pipe 0.1m ~ 3m (option)
	Suspending wire 0.1m ~ 20m (option)
<b>Measurement Range</b>	0.01m/s ~ 10m/s
<b>Accuracy</b>	0.01m/s ~ 0.1m/s : $\pm 1\%$
	0.1m/s < V $\leq$ 10m/s : $\pm 0.5\%$
<b>Memory</b>	500 data
<b>Power Source</b>	Rechargeable Battery
<b>Measuring Time Interval</b>	1 ~ 99 sec
<b>Cosine Components</b>	$\pm 90^\circ$ sensing ( $\cos \alpha$ )
<b>Accessories</b>	
<b>Signal Cable</b>	6m $\times$ 2P within connector
<b>Charger Adapter</b>	DC 12V