

Portable Doppler Flow Velocity Speed Meter

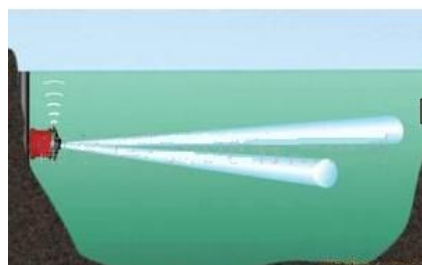
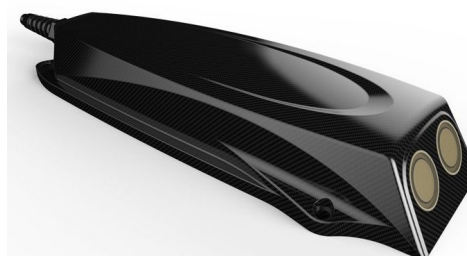
GE-104D portable doppler flow velocity meter could measure the liquid velocity in open channel or river, it could measure the depth of water too. It could supply Instantaneous flow rate and totalized flow value, 265M built-in internal memory with 4G SD card, The GE-104D doppler flow velocity meter could remote measure by GPRS wireless module(optional accessory)

GE-104D ultrasonic Doppler flow velocity meter is a compact, easy-to-use system for measuring the velocity and depth of water in rivers and streams, open drainage channels, and large non-full pipes. It is suitable for use in a wide range of water qualities ranging from sewage and wastewater to clean streams, potable water, and even sea water. The doppler velocity meter measures forward and reverse flow conditions and may be programmed to compute flow rate and total flow in pipes and open channels.

Liquid water velocity is measured by the ultrasonic doppler principle which relies on suspended particles or small air bubbles in the water to reflect the ultrasonic detector signal. The doppler flow velocity meter will not operate in very clean, degassed water. Water depth is gauged by a hydrostatic pressure sensor, referenced to atmospheric pressure through the vented power and signal cable.

Specification:

- * Flow Measure range: 0.02m/s ~ 5m/s ~ 10m/s
- * Flow Resolution: 1mm/s
- * Accuracy: $\pm 2\%$
- * Water Depth Range: 0~5m
- * Water Depth Resolution: 2mm
- * Work Temperature: 0-65C
- * Power Supply: built-in Li-batteries.
- * Display: LCD touch screen
- * Storage Memory: 265M, CMOS RAM + 4G SD card



This doppler flow velocity meter could be widely used in storm monitoring, wastewater treatment, natural rivers, municipal water supply and drainage, water loss / infiltration monitoring, irrigation flow monitoring, industrial pollution measurement, research & tidal estuary, fishing / water, coastal erosion studies, sewer / culvert flow monitoring, road drainage monitoring process research canal, river flow monitoring and other industries.

Measurement:

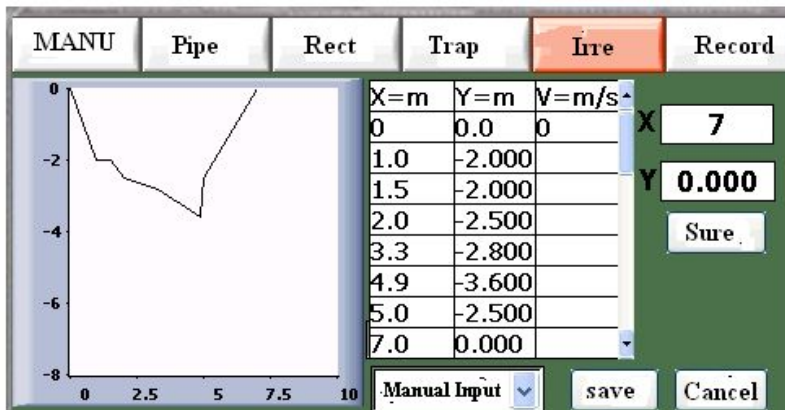
MANU	Pipe	Rect	Trap	Ire	Record
Velo	0.000 m/s	Tem	0.0 °	Sect	Pipe
Flow	0.000 m3/s	Level	0.000 m	Pipe	0.000 m2
Tota	0.00 m3	Zero Tota		Rect	0.000 m2
Auto Save	Address			Trap	0.000 m2
Auto Save	Save Lag	1 s		Ire	0.000 m2
Manual Save					

Channel Type:

It could measure the flow in the pipe, rectangle, trapezoid, irregular shape channel

MANU	Pipe	Rect	Trap	Ire	Record
		D	0 m		
		H1	0 m		
		Input	H2	m	
			H2		
			H		
			Save		

[The measurement for Pipe]



[The Measurement for irregular shape channel]

Data Storage:

It could store the measurement value, include measure address, time, flow velocity, water depth, water temperature, flow rate.

MANU	Pipe	Rect	Trap	Ire	Record	
Address	Time		Velocity	Depth	Temp	Flow
abc	2014-03-11	22:12:56	0.0	0.0	0.0	0.0
abc	2014-03-11	22:12:57	0.0	0.0	0.0	0.0
abc	2014-03-11	22:12:59	0.0	0.0	0.0	0.0
abc	2014-03-11	22:13:00	0.0	0.0	0.0	0.0
abc	2014-03-11	22:13:01	0.0	0.0	0.0	0.0
abc	2014-03-11	22:13:02	0.0	0.0	0.0	0.0
abc	2014-03-11	22:13:03	0.0	0.0	0.0	0.0
abc	2014-03-11	22:13:04	0.0	0.0	0.0	0.0
abc	2014-03-11	22:13:05	0.0	0.0	0.0	0.0
abc	2014-03-11	22:13:06	0.0	0.0	0.0	0.0

Package:

- * Meter 1 unit
- * Doppler Sensor 1 unit
- * CG20 Rod 3 meter
- * Mounting base 1 unit
- * Battery Charger 1 unit
- * 4G SD card 1 pc
- * Directing vane 1 unit
- * Suitcase 1 unit