

EESIFLO EASZ-10FP

HANDHELD TRANSIT TIME METER FOR LIQUIDS



EESIFLO

<http://www.eesiflo.com>

EESIFLO EASZ-10FP

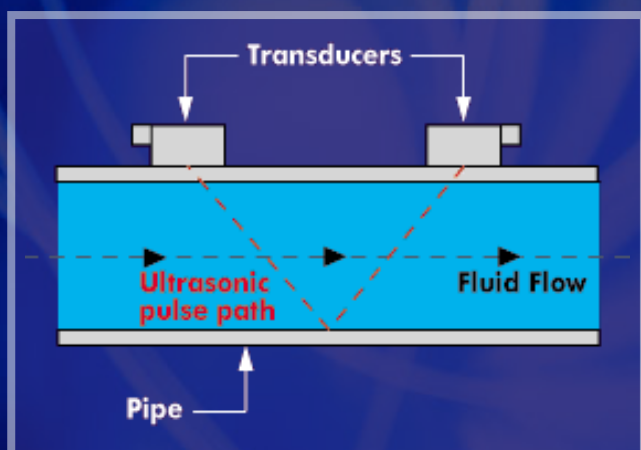
HANDHELD TRANSIT TIME METER FOR LIQUIDS

EESIFLO's hand held transit time meter for liquids is an excellent tool for engineers and technicians wishing to know the liquid flow rate in a pipe without cutting into it or stopping the process. Simply strap the lightweight meter to your shoulder and navigate tight spots and high places without having to worry about carrying a heavy load !! The 10FP will not only give you meaningful measurements within minutes, but can also keep the data you need in its logger memory for printing or downloading in a more convenient environment.

The 10FP comes with everything you will need to conduct a meaningful survey . This includes standard features such as a thickness gage, inbuilt datalogger , 30 ft pair of transducer cables, analog outputs with cables, digital output with cables , carrying case and transport case. You can also chose between standard clamping tracks or quick mount transducer device.



MEASUREMENT PRINCIPLE



Flow Velocity is calculated by the EASZ-10FP by measuring the difference in the transmitted waves travel time both upstream and downstream. The cross sectional area of the pipe is factored into the equation to produce the measured flow rate for the pipe.

FEATURES

- LIGHTWEIGHT AND COMPACT
- ACCURATE FLOW MEASUREMENTS
- EASE OF OPERATION
- PIPEWALL THICKNESS MEASUREMENT
- SOUND VELOCITY MEASUREMENT
- RECHARGEABLE INTERNAL BATTERY
- EXCELLENT TOOL FOR MAINTENANCE ENGINEERS



Waterproof/Crushproof Carrying Case



Rear View



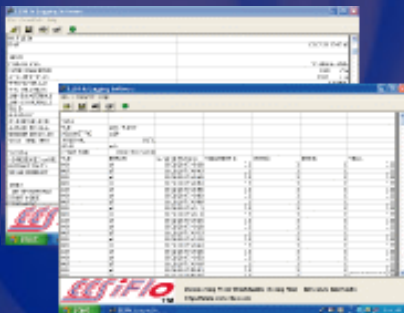
Transducer and PC Interface port



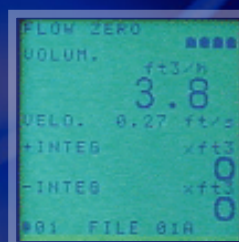
Rechargeable Internal Battery



Rugged Carrying Case



PC Interface Software and Logger



Numerical Display



Graphical Display

SPECIFICATIONS

1	Fluids	Types	Any Homogeneous and Sonically Conductive Liquid		
		Temperature range	-4 to 250 °F		
		Turbidity	10,000 mg/l or less recommended for optimum performance		
2	Pipes	Types	Carbon steel, stainless steel, cast iron, plastic, copper, ductile, etc.		
		Diameter	*Standard transducers = 2 to 40 inches Small transducers for = 1/2 to 8 inches Large transducers for = 12 to 196 inches (For larger pipes please consult factory)		
		Lining	Tar, Epoxy Resins, Metal, etc.		
		Minimum Straight pipe	Upstream side = 10 X Pipe diameter Downstream side = 5 X Pipe diameter		
3	Measuring range	Velocity	-65 to +65 feet/second		
4	Accuracy	Pipe Diameter	Flow Rate > 3 feet/sec	Flow Rate < 3 feet/sec	
		1/2 to 8 inch 2 to 40 inch 12 to 196 inch	±2.0% ±1.5% ±1.0%	±0.787 inches/sec ±0.591 inches/sec ±0.394 inches/sec	
5	Measuring method	Transit time			
6	Output signal	Analog output Output items Single output format Dual output format	Instantaneous flow rate 4 ~ 20 mA DC (600 ohm or less, non-isolated) (selectable) 1 ~ 4 ~ 20 mA DC (600 ohm or less, non-isolated) (selectable)		
		Digital output output items output format	Measuring time, instantaneous/ rate, integrated contra-flow rate, error codes(selectable) Via RS232C interface		
		Printer output output items	Measuring time, instantaneous/ rate, integrated contra-flow rate, error codes(selectable)		
7	Display	Content	Instantaneous flow rate/instantaneous velocity 4 digits, integrated flow rate 6 digits, flow/contra-flow (trend graph), item setting and data set, self-diagnosis results.		
		Format	128 X 128 Dot matrix		
8	Settings	Method	Interactive key input		
		Items	Pipe data settings, analog output, digital output, etc.		
9	Wall Thickness measurement	Range	0.06 to inches (steel)		
		Setting range	1640 to 32,805 feet/sec		
10	Speed of Sound Range	Range	328 to 9842 feet/sec		
11	Memory back up	Built-in lithium battery, integrated flow rate data, measurement setting data, logging data and measured data for 5 years			
12	Logging function	Stores approx. 55,000 items (measuring time, instantaneous rate, integrated rate, integrated contra rate, error codes)			
13	Power Supply	Power source 11~ 30 V DC			
		Battery 7.2 V DC (7.5 hours)			
		AC adapter	output voltage input voltage	12V DC @ 11 VA * Battery recharge time ~ 4 hours. 1. 100/120 VAC 50/60 Hz (selectable)	
14	Power consumption	Approx. 3 Watts (on battery) Approx. 10 Watts (12 VDC include battery recharging)			
15	Temperature range	-15 ~ +125 °F			
16	Humidity	90% RH or less (no condensation)			
17	Weight	Approx. 2.8 pounds (with battery)			



<http://www.eesiflo.com>

Measures small pipes and large pipes, verifies pipe wall thickness, installs in minutes and lets you measure flow rates with ease.