



ALSONIC

Hand-held Transit-Time Ultrasonic Flowmeter

Model ALSONIC-DHL Series

GENERAL

The Alsonic-DHL series is a hand-held transit-time ultrasonic flowmeter with a built-in data logger and clamp-on transducers for non-invasive liquid measurement. Our microprocessor based, user friendly, field programmable signal processor allows no interruption of the process flow resulting in low installation costs.

FEATURES

- 4 line LCD display with flow rate, totalizer & diagnostics.
- High accuracy, ±1.0%.
- Compact, lightweight design
- Wide range, fluid velocities ranging 1.5 ft~40 ft/sec (0.5~± 12m/s).
- Ni-MH Battery life for up to 16 hours of continuous operation.
- Transducers for pipe sizes from 1"~ 48" (25 to 1200 mm).
- Transducers include magnetic base, which allows for mounting on metal pipes, without mounting belt or clamps.
- Data logger records parameters including flowrate, date, total flow and diagnostics.
- Response time less than 10 seconds.





SPECIFICATIONS

Measuring Principle :	Transit time Ultrasonic	Response Time:	
Transducers:	1"~ 48" (25~1200mm)	Fluid velocity:	
Pipe Material:	Cast Iron, Stainless Steel, Ductle Iron	Resolution:	
	Copper, PVC, Aluminum, Asbestos	Ambient Tempe	ra
	Fiberglass	Ambient Humic	lit
Liner Material:	Epoxy, Rubber, Mortar, Polypropylene,	Built-in battery:	
	Polystryal, Polystryene, Polyester, Ebonite,	Operation Time	:
	Polyethylene, Teflon etc.	Data Logger:	
Display:	4 Line LCD with back-light.		
Flowrate:	5 digit with decimal point		
Totalizer:	9 digit, Forward, Reverse & Net values.	Output:	
Engineer Unit:	m³, Liter, US Gallon, Imperial Gallon,		
	Million Gallon, Cubic Feet, US Barrels,	Charger:	
	Imperial Barrels, Oil Barrel.	Power consump	oti
Time Unit:	Second, Minute, Hour, Day.	Dimension:	
Add'l Parameters:	Velocity, Date, Time, Signal condition	Weight:	
Accuracy:	\pm 1%~ \pm 2% of reading 1.5 ft~40 ft/sec (0.5~12m/s)	Enclosure	
Repeatability:	±0.3% of reading	Co	n
Keypad:	23 Key with tactile action	Trar	ารต

Response Time:	Less than 10 second					
Fluid velocity:	1.5~40 ft/s (0.5~±12m/s)					
Resolution:	0.05 m/s					
Ambient Temperature:	14~140° F (-10~+60° C)					
Ambient Humidity:	0-90% RH, non-condensing					
Built-in battery:	11.1V Ni-MH Battery					
Operation Time:	> 16 Hours					
Data Logger:	8G SD card					
	flow rate, totalizer,					
	time, date, etc					
Output:	4-20mA, maximum 750Ω					
	Data logger (FAT 16)					
Charger:	110~240V _{AC} 50/60 Hz, 4-6 Hour charge time					
Power consumption:	Less than 2.5W					
Dimension:	8.07" x 4.17" x 1,37" (205*106*35mm)					
Weight:	1.4 lbs (0.65Kg)					
Enclosure						
Converter:	IP54,NEMA 13					
Transducer:	IP68/NEMA 6P					

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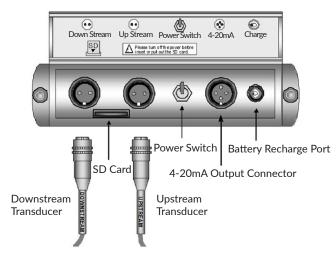
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TRANSDUCER SPECIFICATION

Standard-Transducers

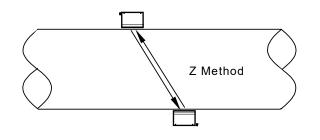
14°F ~ +176°F (-10°C ~ +80°C)					
1"~48" (DN25~DN1200)					
IP68					
5m(std), 10m, 15m (opt)					

CONNECTIONS

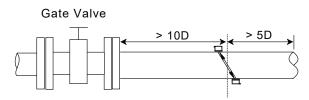


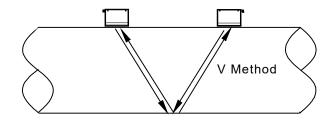


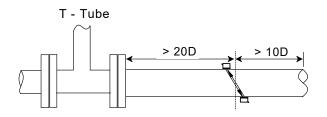
INSTALLATION

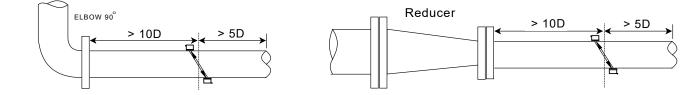


STRAIGHT RUN PIPING REQUIREMENT









CONTENTS OF PORTABLE ULTRASONIC FLOWMETER KIT



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** Please contact your local SmartMeasurement application engineer You also need to provide the following information:

TYPE OF FLUID LINE SIZE PROCESS PRESSURE AND TEMPERATURE PIPE MATERIAL Please provide the name of your fluid, including operating density and viscosity

Pipe size and sensor connection type (insertion, clamp, etc..)

We will calibrate your flowmeter as close to your operating conditions as possible

Please provide the name of your pipe material

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Example : Alsonic-DHL-DTS-C1-DL									
ALSONIC DHL **	**	**	**	**	**	**	DESCRIPTION		
Handheld DHL									
Basic Model, Includes:									
* Alsonic-DHL Handheld *1 set					Portable Flowmeter				
* Power Adaptor (110-240 $\rm V_{AC}$,50/60Hz) $^{*}1$ set	DHL								
* 4-20mA cable *1 set									
* Waterproof Carrying Case									
No transducers required		NTS				Transducers			
Standard transducer, 1"~48" (25~1200mm)		DTS							
None cable needed			NC						
5M, 2 Cables			C1		Signal Cable Length				
10M, 2 Cables			C2						
15M, 2 Cables			C3						
None option				NN					
8G SD card				DL					
Extra single cable. 10m * 2				Cable	Option				
Thickness gauge				тт					

