



ALSONIC-DHL

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 for installation with no interruption of the process flow, resulting in low installation costs.

FEATURES

- 4 line LCD display with flow rate, totalizer & diagnostics
- High accuracy; $\pm 1.0\%$
- Compact, lightweight design
- Wide range of fluid velocities (0.5 ~ ± 12 m/s)
- Ni-MH Battery life for up to 16 hours of continuous operation.
- Transducers for pipe sizes ranging from 1"~48" (25 to 1200 mm)
- Transducers include magnetic base; 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



SPECIFICATION

- Measuring Principle : Transit time ultrasonics
- Transducers : 1" ~ 48" (25 ~ 1200 mm)
- Pipe Material : Cast Iron, Stainless Steel, Ductile Iron
Copper, PVC, Aluminum, Asbestos
Fiberglass
- Liner Material : Epoxy, Rubber, Mortar, Polypropylene,
Polystyryl, Polystyrene, Polyester, Ebonite,
Polyethylene, Teflon... etc.
- Display : 4 Line LCD with back-light
Flowrate : 5 digit with decimal point
Totalizer : 9 digit, Forward, Reverse & Net values.
Volumetric Units : m³, Liter, US Gallon, Imperial Gallon,
Million Gallon, Cubic Feet, US Barrels,
Imperial Barrels, Oil Barrel
Time Units : Second, Minute, Hour, Day
Additional Parameters : Velocity, Date, Time, Signal condition
- Accuracy : $\pm 1\% \sim \pm 2\%$ of reading (0.5 ~ 12 m/s)
- Repeatability : $\pm 0.3\%$ of reading
- Keypad : 23 Key with tactile action
- Response Time : Less than 10 second
- Fluid velocity : 1.5~40 feet/sec (0.5 ~ ± 12 m/s)
- Resolution : 0.05 m/s
- Ambient Temperature : 14~ 140 °F (-10 ~ +60 °C)
- Ambient Humidity : 90% RH, non-condensing
- Built-in battery : 11.1V_{DC} Ni-MH Battery
- Operation Time : > 16 Hours
- Data Logger : 2Gb SD card
flow rate, totalizer,
time, date, etc..
- Output : 4-20mA, maximum 750Ω
Data logger (FAT16)
- Charger : 110 ~ 240V_{AC} 50/60 Hz, 4-6 Hour charge tim
- Power consumption : Less than 2.5W
- Dimensions : 8.07" x 4.17" x 1.37" (205 * 106 * 35 mm)
- Weight : 1.4 lbs (0.65 Kg)
- Enclosure : Converter : IP54, NEMA 13
Transducer : IP68

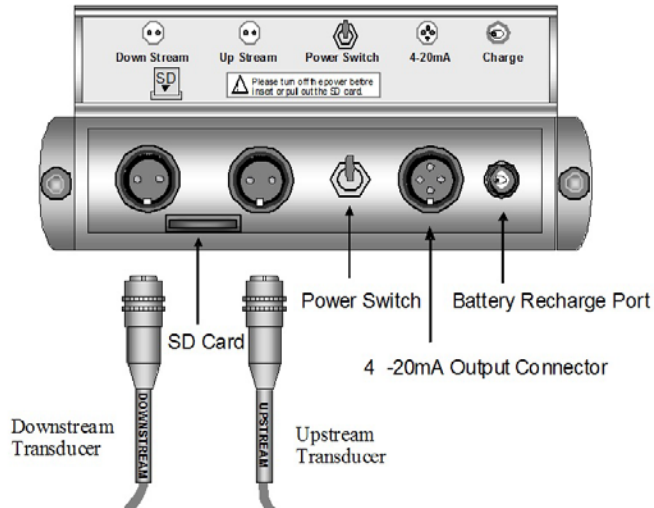
TRANSDUCER SPECIFICATIONS

Standard-Transducers

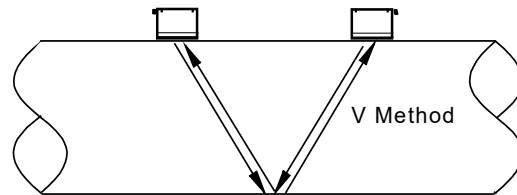
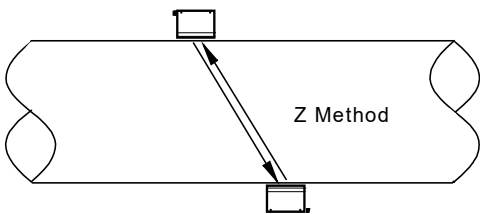
- Fluid Temperature : 14~176 °F (-10 ~ 80 °C)
- Pipe Size: 1"~48" (DN25~DN1200)
- Protection: IP68
- Cable Length: 5m(std), 10m, 15m (opt)



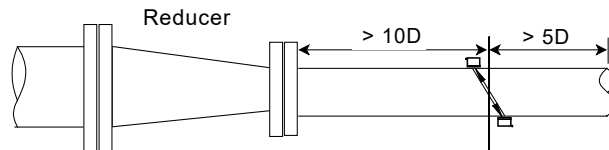
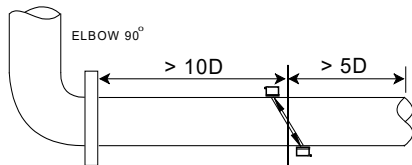
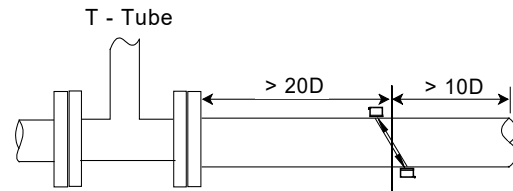
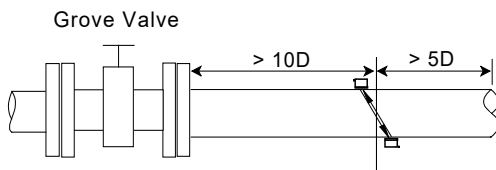
CONNECTIONS



INSTALLATION



STRAIGHT RUN PIPING REQUIREMENT



CONTENTS OF PORTABLE ULTRASONIC FLOWMETER KIT



OTHER ACCESSORIES



Measuring Tape



Longer signal cable



Thickness gauge



2G SD card

**** Please contact your local SMC application engineer**

You also need to provide the following information:

Type of Fluid	Please provide the name of your fluid, including operating density and viscosity
Line Size	Nominal pipe size and sensor connection type (insertion, clamp, etc..)
Process Pressure and Temperature	We will calibrate your flowmeter as close to your operating conditions as possible
Type of Electronics	Output and installation type (compact, wall mount, panel mount, etc..)
Pipe Material	Please provide the name of your pipe material (Copper, PVC, black iron, etc.)

➤ Model Selection Guide

Alsonic-DHL						
Example : Alsonic-DHL-DTS-C1-DL						
Alsonic-	**	**	**	**		Description
Handheld DHL Basic Model, Including: * Alsonic-DHL Handheld * 1 set * Power Adapter (110-240 V _{AC} , 50/60Hz) * 1 set * 4-20mA cable * 1 set * Waterproof Carrying Case	DHL					Portable Flowmeter
No transducers required		NTS				Transducers
Standard transducers, 1" ~ 48" (25 ~ 1200 mm)		DTS				
No cable needed			NC			Signal Cable Length
5 m length, 2 Cables			C1			
10 m length, 2 Cables			C2			
15 m length, 2 Cables			C3			
None option				NN		Option
2Gb SD card				DL		
Extra signal cable; 10m * 2				Cable		
Digital thickness gauge				TT		



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