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

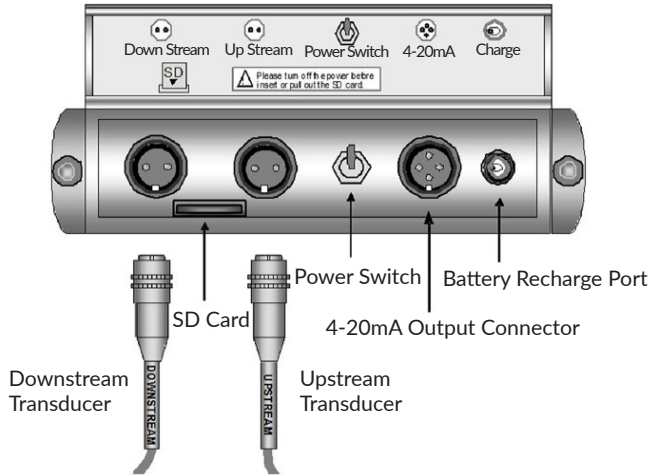|				
Measuring Principle :	Transit time Ultrasonic		**Response Time:**	Less than 10 second
Transducers:	1"~ 48" (25~1200mm)		**Fluid velocity:**	1.5~40 ft/s (0.5~±12m/s)
Pipe Material:	Cast Iron, Stainless Steel, Ductle Iron		**Resolution:**	0.05 m/s
	Copper, PVC, Aluminum, Asbestos		**Ambient Temperature:**	14~140° F (-10~+60° C)
	Fiberglass		**Ambient Humidity:**	0-90% RH, non-condensing
Liner Material:	Epoxy, Rubber, Mortar, Polypropylene,		**Built-in battery:**	11.1V Ni-MH Battery
	Polystryal, Polystryene, Polyester, Ebonite,		**Operation Time:**	> 16 Hours
	Polyethylene, Teflon... etc.		**Data Logger:**	8G SD card
Display:	4 Line LCD with back-light.			flow rate, totalizer,
Flowrate:	5 digit with decimal point			time, date, etc..
Totalizer:	9 digit, Forward, Reverse & Net values.		**Output:**	4-20mA, maximum 750Ω
Engineer Unit:	m³, Liter, US Gallon, Imperial Gallon,			Data logger (FAT 16)
	Million Gallon, Cubic Feet, US Barrels,		**Charger:**	110~240V$_{AC}$ 50/60 Hz, 4-6 Hour charge time
	Imperial Barrels, Oil Barrel.		**Power consumption:**	Less than 2.5W
Time Unit:	Second, Minute, Hour, Day.		**Dimension:**	8.07" x 4.17" x 1,37" (205*106*35mm)
Add'l Parameters:	Velocity, Date, Time, Signal condition		**Weight:**	1.4 lbs (0.65Kg)
Accuracy:	± 1%~± 2% of reading 1.5 ft~40 ft/sec (0.5~12m/s)		**Enclosure**	
Repeatability:	±0.3% of reading		**Converter:**	IP54,NEMA 13
Keypad:	23 Key with tactile action		**Transducer:**	IP68/NEMA 6P

TRANSDUCER SPECIFICATION
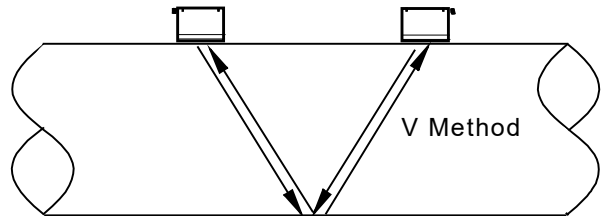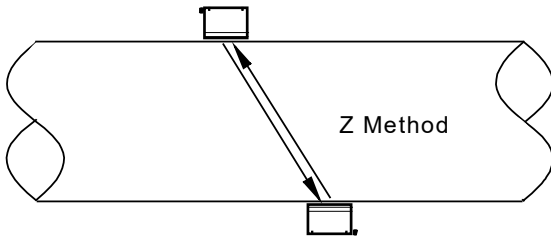
Standard-Transducers

Fluid Temperature: 14°F ~ +176°F (-10°C ~ +80°C)

Pipe Size: 1"~48" (DN25~DN1200)
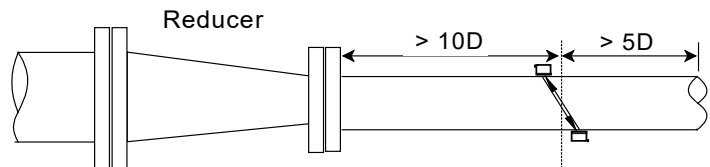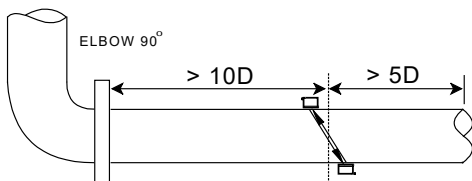
Protection: IP68

Cable: 5m(std), 10m, 15m (opt)

CONNECTIONS

Down Stream | Up Stream | Power Switch | 4-20mA | Charge

SD ▼

⚠ Please turn off the power before insert or pull out the SD card.

SD Card

Downstream Transducer — DOWNSTREAM

Upstream Transducer — UPSTREAM

Power Switch

4-20mA Output Connector

Battery Recharge Port

INSTALLATION

Z Method

V Method

STRAIGHT RUN PIPING REQUIREMENT

Gate Valve

> 10D   > 5D

T - Tube

> 20D   > 10D

ELBOW 90°

> 10D   > 5D

Reducer

> 10D   > 5D
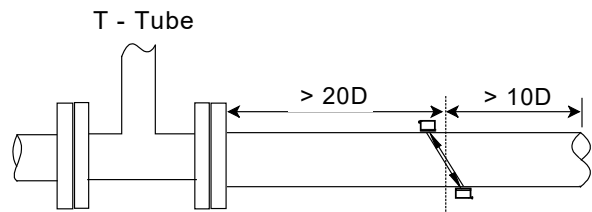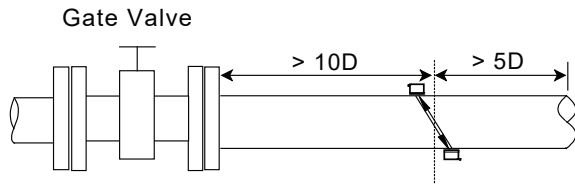
CONTENTS OF PORTABLE ULTRASONIC FLOWMETER KIT

Transducers

Signal cables

Converter

Worm gear clamp

4-20mA connection cable

Charger

OTHER ACCESSORIES

Measuring Tape

Thickness gauge

8G SD card

ALSONIC — Hand-held Transit-Time Ultrasonic Flowmeter ALSONIC DHL Series

** Please contact your local SmartMeasurement 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	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
PIPE MATERIAL	Please provide the name of your pipe material

ALSONIC

Example : Alsonic-DHL-DTS-C1-DL

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