



Hand-held Transit-Time Ultrasonic Flowmeter

Model ALSONIC-DHL Series

ALSONIC

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) 110~240V _{AC} 50/60 Hz, 4-6 Hour charge time | | |
| | Million Gallon, Cubic Feet, US Barrels, | Charger: | | | |
| | 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 | | |





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TRANSDUCER SPECIFICATION

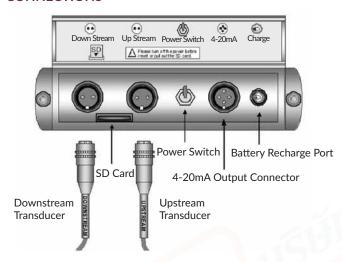
Standard-Transducers

Fluid Temperature: $14^{\circ}F \sim +176^{\circ}F (-10^{\circ}C \sim +80^{\circ}C)$

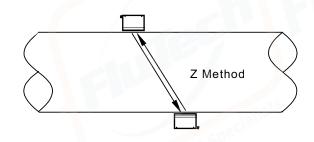
Pipe Size: 1"~48" (DN25~DN1200)
Protection: IP68

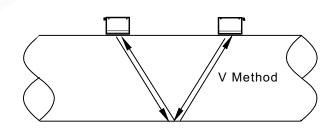
Cable: 5m(std), 10m, 15m (opt)

CONNECTIONS

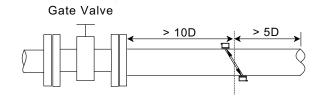


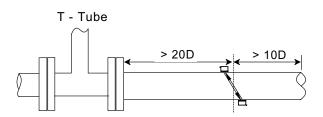
INSTALLATION

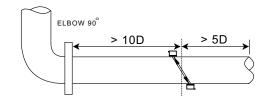


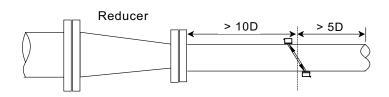


STRAIGHT RUN PIPING REQUIREMENT













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CONTENTS OF PORTABLE ULTRASONIC FLOWMETER KIT



OTHER ACCESSORIES



Measuring Tape



Thickness gauge



8G SD card





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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

| ALSONIC | | | | | | | | | |
|---|-----|-------|------|------------|-------------|--------------------|--------------------|--|--|
| Example : Alsonic-DHL-DTS-C1-DL | | | | | | | | | |
| ALSONIC DHL ** | ** | ** | ** | ** | ** | ** | DESCRIPTION | | |
| Handheld DHL | | | | | | | Portable Flowmeter | | |
| Basic Model, Includes: | DHL | | | | | | | | |
| * Alsonic-DHL Handheld *1 set | | | | | | | | | |
| * Power Adaptor (110-240 V _{AC} ,50/60Hz) *1 set | | | | | | á | | | |
| * 4-20mA cable *1 set | | | | | | V | | | |
| * Waterproof Carrying Case | | | | $\omega 1$ | | | | | |
| No transducers required | | | - 11 | 0 | Transducers | | | | |
| Standard transducer, 1"~48" (25~1200mm) | DTS | | | | | Transducers | | | |
| None cable needed | | | NC | | | | | | |
| 5M, 2 Cables | | | C1 | | | | | | |
| 10M, 2 Cables | | | C2 | | | Signal Cable Lengt | | | |
| 15M, 2 Cables | | C3 | | | | | | | |
| None option | | | NN | | | | | | |
| 8G SD card | | | | | | Option | Ontion | | |
| Extra single cable. 10m * 2 | | Cable | | Орион | | | | | |
| Thickness gauge | | | | | | | | | |

