

Handheld Transit-Time Ultrasonic Flowmeter Model CALSONIC-PU-1152

7 GENERAL

Calsonic-PU series is a Handheld transit-time ultrasonic flowmeter with clamp-on transducers for non-invasive liquid measurement. Our microprocessor based, user friendly field programmable flow measurement technique creates no interruption of the process flow and has low installation costs.

7 FEATURES

- ☐ 4 line LCD display with flow rate, totalizer & diagnostics.
- ☐ The flowmeter is designed for high accuracy ± 1.0%.
- ☐ Small sized (8.07" x 4.33" x 1.53") and lightweight (≈2.2 lb.)
- ☐ Wide range of fluid velocities $0 \sim \pm 39$ feet/sec. $(0 \sim \pm 12 \text{ m/s})$
- □ Long-life Ni-MH battery for up to 16 hours of continuous operation.
- ☐ Transducer for pipe sizes ranging from 1" ~ 48" (25 to 1200 mm)
- Repeatability 0.2%
- Mounting include magnetic device, which can install on metal pipe without mounting belt.
- □ Data logger which records flowrate, date, total flow, signal condition, etc.
- Response time less than 1 second



• Measuring Principle : Transit time ultrasonic

• Transducer : 1" ~ 48" (25 mm ~ 1200 mm)

STD Cable Lengh : 16ft (5m)

Pipe Material : Carbon Steel, Stainless Steel, Ductle Iron

Copper, PVC, Aluminum, Asbestos

Fiberglass... etc.

Liner Material: Tar Epoxy, Rubber, Mortar, Polypropylene,

Ploystryene, Polyester, Ebonite,

Polyethylene, Teflon... etc.

Display : 4 Line LCD with backlight

Flowrate: 5 digit with decimal point

Totalizer: 8 digit, Forward, Reverse & Net values.

Engineering Units: M³, Liter, US Gallon, Imperial Gallon,

Million Gallon, Cubic Feet, US Barrels,

Imperial Barrels, Oil Barrel.

Time Units : Second, Minute, Hour, Day.

Other Parameter: Velocity, Date, Time, Signal condition.

Accuracy : ± 1% of readingRepeatability : ± 0.2% of reading

Keypad : 23 Key with tactile actionResponse Time : Less than 1 second

Flow velocity : 0 ~ 39 feet/sec. (0 ~ ± 12 m/s) :
 Resolution : 0.0003 feet/sec. (0.0001 m/s)
 Ambient Temperature : -14 ~ 140 °F (-10 ~ 60 °C)

Ambient Humidity : 99% RH or Less
 Built-in battery : Ni-MH Battery
 Operation Time : > 16 Hours

• Charger : $90 \sim 260 V_{AC} 50/60 \text{ Hz}$, 8-12 Hr charging

Data Storage : SD Card (2GB), Max 512 files Polystryal,

5~60 seconds Interval

Including Software to download logged data

from SD card to PC

Output: 4-20mA, Max 750 Ohm

• Medium Temp. : -10 ~ 80°C (Standard)

• Dimension : 8.07" x 4.33" x 1.53" (20.5 x 11 x 3.9 cm)

• Weight : 2.2lb (1.0 kg)

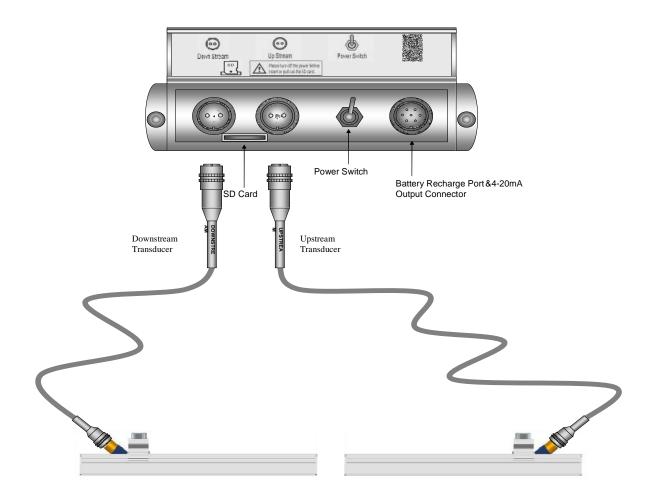
• Enclosure : Converter : IP65

Sensor : IP68 (Submersible)

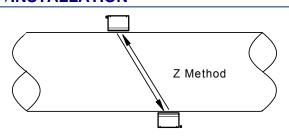
URL: http://www.calstrument.ca

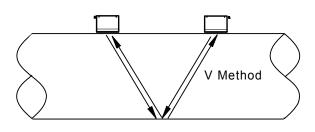
TEL/FAX: +1-416-223-2701 E-mail:sales@calstrument.ca

₹ WIRING FOR ULTRASONIC FLOWMETER

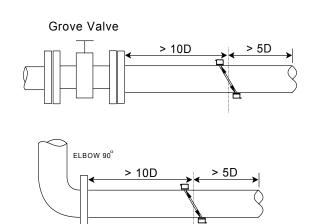


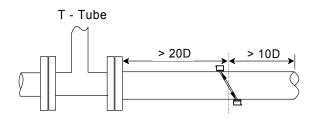
INSTALLATION

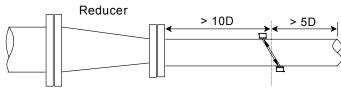




▼ STRAIGHT RUN PIPING REQUIREMENT







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** Please contact your local Calstrument 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.)

尽 SCOPE OF DELIVERY



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