

Handheld Ultrasonic Flow Meter TUF-2000H

GENERAL

TUF-2000H series is a portable transit-time ultrasonic flowmeter with clamp-on transducers for non-invasive liquid measurement. Our microprocessor based, user friendly, field programmable flow measurement technique allows no interruption of the process flow and has low installation costs.

FEATURES

- 4 line LCD display with flowrate, totalizer & signal condition.
- The flowmeter is designed for high accuracy +/-1.0%.
- Small sized (210 * 90 * 30mm) and light - weight (500 g)
- Wide range, Velocities (0.01 ~ +/- 32 m/s).
- Ni-MH Battery life for up to 12 hours continuous operation.
- Transducers for pipe sizes of 15 to 6000 mm.
- High accuracy of +/-0.5% of reading (or +/-0.2% of reading)
- Transducers include magnet 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



SPECIFICATION

- Measuring Principle : Transit time Ultrasonics
- Transducers : TS-2 : 15 mm ~ 100 mm (1/2" ~ 4")
TM-1 : 50 mm ~ 700 mm (2" ~ 28")
TL-1 : 300 mm ~ 6000 mm (12" ~ 240")
TS-2-HT : 15 mm ~ 100 mm (1/2" ~ 4")
TM-1-HT : 50 mm ~ 1000 mm (2" ~ 40")
- Pipe Material : Cast Iron, Stainless Steel, Ductile Iron
Copper, PVC, Aluminum, Asbestos
Fiberglass... etc.
- Liner Material : Tar Epoxy, Rubber, Mortar, Polypropylene,
Polystyrene, Polyethylene, Polyester, Ebonite,
Polyethylene, Teflon... etc.
- Display : 4 Line LCD with illumination.
Flowrate : 5 digit with decimal point
Totalizer : 8 digit, Forward, Reverse & Net values.
Engineer Unit : M3, Liter, US Gallon, Imperial Gallon,
Million Gallon, Cubic Feet, US Barrels,
Imperial Barrels, Oil Barrel.
Time Unit : Second, Minute, Hour, Day.
Other : Velocity, Date, Time, Signal condition.
- Accuracy : +/- 1% ~ +/- 2% of reading (0.5 ~ 30 m/s)
: +/- 0.5% of reading (online calibration)
- Repeatability : +/-0.2% of reading
- Keypad : 18 Key with tactile action
- Response Time : Less than 1 second
- Flow velocity : 0.01 ~ +/- 32 m/s
- Resolution : 0.0001 m/s
- Ambient Temperature : -20 ~ +50 °C
- Ambient Humidity : 90% RH or Less
- Built-in battery : Ni-MH Battery
Operation Time : > 12 Hours
- Charger : 90 ~ 260Vac 50/60 Hz, 8-12 Hr charging
- Data Storage : Operation parameters and totalization
data are stored by EEPROM for more
than 10 years
- Operation Time : > 10 Hours
- Charger : 90 ~ 260Vac 50/60 Hz, 8-12 Hour charging
- Data Logger : 24 KB data include flowrate, totalizer,
time, date.
- Alarm : High/Low with buzzer
- Power consumption : Less than 2W
- Dimension : 210 * 90 * 30 mm
- Weight : 0.50 Kg
- Enclosure : Converter : IP65
Sensor : IP68 (Submersible)

➤ TRANSDUCER SPECIFICATION

● Standard-Transducers

Fluid Temperature : -30 ~ +90 °C

Model	TS-2 (Small Size)	TM-1 (Medium Size)	TL-1 (Large Size)
Pipe Size	DN15-100mm	DN50-700mm	DN300-6000mm
A*B*C	45mm*23mm*25mm	64mm*32mm*35mm	98mm*45mm*49mm



● High Temperature Transducers

Fluid Temperature : -30 ~ +160 °C

Model	TS-2-HT (Small)	TM-1-HT (Medium)
Pipe Size	DN 15-100mm	DN 50-1000mm



➤ ACCESSORY (standard package)



Aluminum Case



Cable 5M



Silicone grease

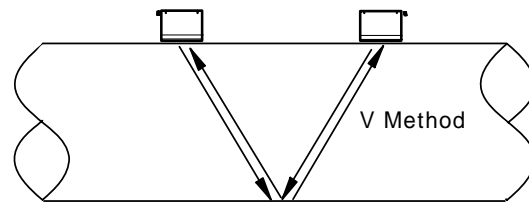
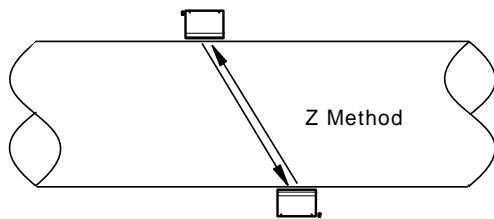


Mounting Belt



Measuring Tape

➤ INSTALLATION



➤ STRAIGHT RUN PIPING REQUIREMENT

