

GENERAL

WESS ENV880F ultrasonic flowmeter is a state-of-the-art universal transit-time flowmeter incorporating the latest developments in digital signal processing, with clamp-on transducers for non-invasive liquid measurement. While principally designed for clean liquid applications the instrument is tolerant of liquids with a small quantity of air bubbles or suspended solids common in most industrial applications.

FEATURES

- * Daily, monthly and early totalized flow
- * Calorimeter calculation function (BTU)
- * Batch control function
- * flow velocity $\pm 0.01 \sim \pm 32$ m/s
- * High accuracy of $\pm 0.5\%$ of reading
- * Clamp-on sensors are simple to install, leading to lower installation and labor costs
- * Clamp on sensors mean no pipe cutting or process interruption and no plant shut-down
- * Hygienic measurement, no risk of contamination, suitable for ultra clean liquids
- * Measurement is independent of fluid conductivity meaning a wider applicability than magnetic meters

SPECIFICATION

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| <ul style="list-style-type: none"> ● Pipe Size : S Type : 15 mm ~ 100 mm
: M Type : 50 mm ~ 700 mm
: L Type : 300 mm ~ 6000 mm ● Pipe Material : Cast Iron, Stainless Steel, Ductile Iron, PP, PVC, Aluminum, Asbestos, Fiberglass... etc ● Liner Material : Tar Epoxy, Rubber, Mortar, Polypropylene, Polystyrene, Polyester, Ebonite, Polyethylene, Teflon... etc ● Display : 40 character, 2 line (20*2) lattice alphanumeric backlit LCD, Velocity, Date, Time, Signal condition. | <ul style="list-style-type: none"> ● Basic accumulated cycle : 500ms ● Resolution : 0.0001 m/s ● Response Time : Less than 1 second ● Keyboard : 16 (4*4) key with tactile action ● Output : 0/4-20mA max load 750 ohm (precision 0.1%) ● pulse output : OCT (min 250ms), frequency 0~9999HZ (min&max frequency is adjustable) ● Relay output : SPST, max 1HZ (1A@125VAC) ● Communication : RS232 & RS485 ● Data Logger : 64 data include flowrate, totalizer, time ● Input (Calorimeter calculation BTU function) : 0/4~20mA ; (PT100, PT500, PT1000) |
| <ul style="list-style-type: none"> Flowrate : 5 digit with decimal point Totalizer : 8 digit, Forward, Reverse & Net values Flow Unit : M3, Liter, US Gallon, Imperial Gallon, Million Gallon, Cubic Feet, US Barrels, Imperial Barrels, Oil Barrel Heat Unit (Btu) : Kwh, GJ ; [Energy=Volume*(T1-T2)*K factor(T i)] Time Unit : Second, Minute, Hour, Day ● Flow Velocity : $\pm 0.01 \sim \pm 32$ m/s ● Measurement Accuracy : $\pm 0.5\% \sim \pm 2\%$ of reading ● Repeatability : $\pm 0.1 \sim \pm 0.5\%$ at $\pm 0 \sim \pm 32$ m/s
Linearity $\pm 0.5\%$ | <ul style="list-style-type: none"> ● Power Requirement Wall mount type : 90 & 260 VAC 50/60HZ or 24VDC +10% Power consumption : Less than 2 W Portable type : 110 & 220 VAC +10% ● Mounting : Wall mounting ● Enclosure converter, IP65 ; Temp : $-20 \sim +60^{\circ}\text{C}$; Humidity: 90% RH max sensor, IP68 ; Temp : $-20 \sim +120^{\circ}\text{C}$; Humidity: 100% RH max Weigh : 1.3kg ● Portable Ultrasonic Flowmeter Specification Operation time : >10 Hours Built-in Battery : Ni-MH Battrey Enclosure: IP65 Temp : $0 \sim +60^{\circ}\text{C}$ Weigh : 538g |



WESS ENV880F



WESS ENV880P



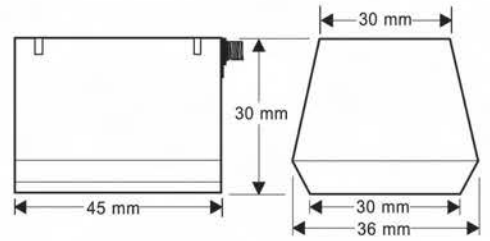
SENSOR SPECIFICATION

Fluid Temperature : -20 ~ +110 °C

S Type

Pipe Size : 15 ~ 100 mm (1/2" ~ 4")

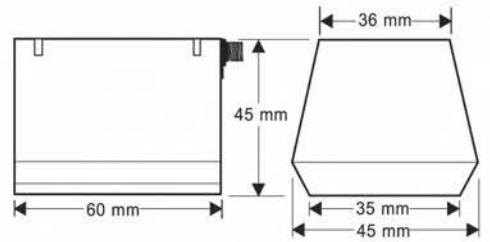
Dimensions : 200 * 25 * 22 mm



M Type

Pipe Size : 50 ~ 1000 mm (2" ~ 40")

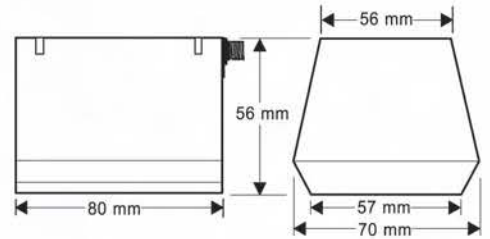
Dimensions : 60 * 45 * 45 mm



L Type

Pipe Size : 300 ~ 6000 mm (12" ~ 240")

Dimensions : 80 * 70 * 56 mm



OTHER ACCESSORY



Mounting Belt

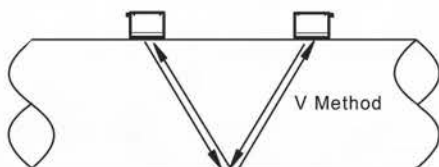
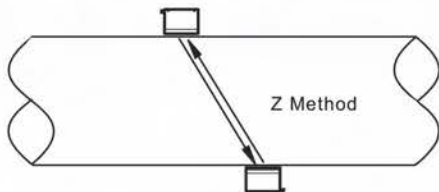


Grease



Sensor Cable

INSTALLATION



CONDITIONS ON STRAIGHT PIPE

