

# TRANTECH TTULF - ULTRASONIC FLOW METER

TTULFP



TTULFW



## Hand-Held Ultrasonic Type

TTULFP works on the transit time method. This is based on the principle that the sound waves traveling with the flow will move faster than those traveling against it. The resulting difference in transit time is directly proportional to the flow velocity of the liquid and consequently to the flow rate.

## Wall mounted Ultrasonic Type

TTULFW is a fixed mounted 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 cost.

## Model Selection

Model	Suffix Code		Description
TTULF	①	②	Ultrasonic Flowmeter
Host Type	W		Wall mounted Type
	P		Handheld Type
Sensor Type	TS		DN15-DN100mm; -40...+90°C
	TM		DN50-DN700mm; -40...+90°C
	TL		DN300-DN6000mm; -40...+90°C
	HTS		DN15-DN100mm; -40...+160°C
	HTM		DN50-DN700mm-40...+160°C





Liquid Types	Most clean liquids; liquids containing small amounts of suspended solids or gas bubbles	
Measuring Principle	Transit-Time	
Converter Model	TTULFP	Hand-Held
	TTULFW	Wall-Mounted
Pipe Size	DN15...DN6000	
Sensor Model	TS	DN15...DN100
	TM	DN50...DN700
	TL	DN300..DN6000
	HTS	DN15...DN100
	HTM	DN50...DN700
Max.Fluid Temperature	TS; TM; TL: -40... +90°C	
	HTS; HTM: -140... +160°C	
Accuracy	±1% - 2% value of the reading (0.5 - 30m/s)	
	±0.5% value of the reading (online calibration)	
Power Supply and Output (Depending on Model)	(1) Rechargeable Battery (RS232)	
	(2) 110 - 230Vac (4-20A/Pulse/RS485)	
	(3) 24V DC (4-20mA/Pulse/RS485)	
Pipe Material	Cast Iron; Stainless Steel	
	Ductile Iron Copper; PVC; Aluminium	
	Asbestos Fiberglass...etc	
Liner Material	Tar Epoxy, rubber, Mortar	
	Polypropylene, Polystyrol	
	Polystyrene, Polyester, Ebonite	
	Polyethylene, Teflon...etc	
Language	English; Chinese (Other's on request)	
Engineer Unit	M³; Liter; US Gallon	
	Gallon; Million Gallon; Cubic Feet	
	US Barrels; Imperial Barrels; Oil Barrel	
Totalizer	7 Digit; Forward; Reverse & Net Valves	
Flow Rate	5 Digit with decimal point	
Host Material	Cast Aluminium	
Weight	Around 7 KG/PCS	