The TTM-500 ultrasonic digital transit time flow monitor by Spectra Technologies Inc. utilizes the latest in digital and microprocessor-based circuit design. The TTM-500 offers a flexible, easy to use flow monitor with outstanding accuracy and reliability.

The TTM-500 transmitter can be used with any of Spectra Technologies clamp-on type sensors that allow the unit to accommodate a large range of pipe sizes as well as sensors from other popular suppliers. This type of flexibility makes the TTM-500 the ideal instrument for off the shelf use under the most demanding situations.
The TTM-500 can address applications for various liquids and has been used for industrial and municipal water and wastewater, petro-chemical, metallurgy, electric power generation and energy management applications.

Specification TTM-500H ultrasonic flow meter

Item	Performance & Parameters	
Host	Principle	Digital Transit Time based ultrasonic flow monitor
	Accuracy	±1% of rate or better
	Repeatability	+/- 0.1%
	Display	2X20 character LCD with backlight. English and Italian
	Signal Output	1 4-20mA output, impedance 1K ohms, accuracy 0. 1%(optional) 1 OCT pulse output (Pulse width 6~1000ms, default is 200ms) 1 Relay output, programmable
	Signal Input	3 4-20mA inputs, accuracy 0. 1%, acquisition signal such as temperature, press and liquid level
		2-PT100 temperature inputs for heat/energy measurement
	Data Interface	1 Isolated RS-485 serial interface.
Pipe Parameters	Pipe Material	Steel, Stainless steel, Ductile Iron, PVC, Aluminum and others. Pipe lining materials can be programmed
	Pipe Diameter	0.6 “(15 mm) to 240” (6000mm)
	Straight Pipe	Standard upstream 3D, downstream 1D, 10D from pumps
Measuring Medium	Medium	Well Water, Finished Water, Condensate, Distilled Water, Alcohol, Acid and Alkali, Wastewater, RAS, WAS. Other liquids containing suspended solids up to 5% Most single-phase liquids that will accommodate the transmission of ultrasonic signals.
	Temperature	-22 F to 320 F (-30-160℃)
	Flowrate	0-23 FPS (0±7m/s, Forward and Reverse measurement capable.
Work environment	Protection grade	Transmitter: IP67, Sensors: IP68
	temperature	Transmitter: -4 -140 ◦F, Sensors: 1400F (Transmitter: -20-60℃, Sensors: - 30-160℃
	Humidity	Transmitter: 85%RH; Sensor: Submersible to 2m (when transducer is factory sealed)
Power Supply	DC8~36V or AC85~264V	
Power Consumption	1.5W	
Dimension	Transmitter (Wall Mount): 5.12” (132mm) x 5.90” (150mm) x 3.35” (85mm)	