APPLICATIONS

- HVAC hot and cold water.
- Food and beverage industry.
- Power plants, heat energy boiler feed water.
- Energy consumption supervision and water conservation management.
- Energy measurement and balancing.

KEY FEATURES

- 50-hour (rechargeable) life, can work while charging with AC power supply.
- Heat function (PT1000 paired sensors) available.
- Buit-in large capacity memory and USB data download function.
- Wireless handheld operator support remote operation and real time data transmission.
- Non-invasive, cost effective and efficient to use.
- No moving parts, no pressure drop, no maintenance.
- User configurable flow rate, totalizer and heat flow.

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Series DFTP1 Powerful and portable flowmeter

DFTP1 Portable Transit Time Ultrasonic Flow and Heat Meter is a new product of SmartyPlanet released in 2013. It provides for precise and reliable ultrasonic clamp-on flow and heat measuring as other conventional portable transit-time products. Furthermore it has the advantages of wireless remote handheld operator function, panel USB data port and optional function of energy meters, can be used as a **powerful portable energy flow meter.**

The rechargeable battery can work over 50 hour, also can work with 110VAC/220VAC power supply for long time field monitoring.

Wireless handheld operator can be used to operate meters replacing the panel keyboard and read data remotely, the distance of transmission can up to 100m with no obstructions. It is more convenient for the applications of the overead pipeline and underground pipeline.

The meter provides multiple outputs: Data storage function, 4~20mA, Frequency (For Flow rate or Total flow), Relay (For Total flow or Alarm), RS485 (Modbus-RTU) output, wireless handheld operator and GPRS.

Transmitter	Power Supply	Internal 12AH Charging battery
		Provides 42 hrs. Of continuous operation @ 20 °C.
		Charging power: 100-240VAC.
	Velocity	0.003 to 12 m/s, bi-directional
	Display	4 line×16 English letters LCD, it can display total flow, flow rate, velocity and meter running status etc.
	Units Rate Totalized Heat	User Configured (English and Metric) Rate and Velocity Display gallons, ft³, barrels, lbs, liters, m³,kg kWh, GJ
	Output	Data storage function, 4~20mA, Frequency (For Flow rate or Total flow), Relay (For Total flow or Alarm), RS485(Modbus-RTU) options: Wireless handheld operator
	Accuracy	±1.0% of reading at rates >0.5 m/s)
		±0.005 m/s of reading at rates<0.5 m/s
	Sensitivity	0.003m/s
	Repeatability	0.2% of reading
	Security	Keypad lockout, access code enable
	Dimensions	ABS 207×104×36mm
Transducer	Liquid Types Supported	Virtually most any liquid containing less tan 5% total suspended solids (TSS) or aeration
	Suited Liquid Temperature	Std. Temp.: -40 ºC~121ºC High Temp.: -40 ºC~250 ºC
	Cable Length	Std: 6m (20 feet); Opt: Maximum: 300m (990 feet)
	Pipe Size	Std M transducer: DN40-1000 L transducer: DN1000-4500 S transducer: DN20-50 K-mode round transducer: DN20-50 (For K, S transducer on the stainless steel pipe, It is better that the thickness of the pipe is more than 2.5mm. If not, please consult us, we have another solve plan.)
	Transducer Size	S: Size:42*25*25; weight:<0.2kg M: Size:60*43*43; weight:<0.5kg L: Size:80*53*53; weight:<1.0kg
Pair Temperature Sensor	Temperature	0 ºC~180ºC
	Accuracy	Pt1000, ≤±0.1ºC

Transmitter:

Portable transmitter

Wireless Handheld Operator

Transducers:

K transducer

High temperature transducer

S-Transducer

M-Transducer

L-Transducer

Clamp-on Pt1000

Insertion Pt1000

Accessories:

M-Mounting Frame (V method and Z method)

S-Mounting Frame (V method and Z method)

Portable Case

Stainless Steel Strap

Flexible belts

Couplant