

# PUTF205

## Portable Transit-time Ultrasonic Flow Meter

### Summary >>>

PUTF205 portable transit-time ultrasonic flow meter utilizes transit-time principle. The transducer is mounted outside surface of the pipe without requirements of flow stop or pipe cutting. It's very simple, convenient for installation, calibration and maintenance. Different sizes of transducers satisfy different measuring requirements. Plus, select the thermal energy measuring function to achieve completely energy analysis. Widely applied in processing monitoring, water balance test, district heating balance test, energy efficiency monitoring as easy installation and simple operation advantages.



### Features >>>

- Built-in Chargeable Lithium Battery Can Continuously Work 50 Hours
- 4 Lines Display Velocity, Flow Rate, Volume And Meter Status
- Clamp-on Mounted, Unnecessary Pipe Cutting Or Processing Interruption
- Fluid Temperature Range  $-40^{\circ}\text{C} \sim 260^{\circ}\text{C}$
- Built-in Data Logger Is Optional
- Selecting Temperature Sensor PT1000 To Achieve Thermal Energy Measurement Function
- Suitable For DN20-DN6000 Flow Measurement By Selecting Different Size Transducers
- Bi-directional Measurement, Flow Range From 0.01m/s To 12m/s



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### Specification >>>

#### • Transmitter

Measuring Principle	Transit-time
Velocity	0.01 - 12 m/s, Bi-directional Measurement
Resolution	0.25mm/s
Repeatability	0.10%
Accuracy	±1.0% R
Response Time	0.5s
Sensitivity	0.003m/s
Damping	0-99s (settable by user)
Suitable Fluid	Clean or tiny amounts of solids, air bubbles liquid, Turbidity <10000 ppm
Power Supply	AC: 85-265V AC (built-in chargeable lithium battery)
Installation	Portable
Protection Class	IP66
Operating Temperature	-40°C ~ 75°C
Enclosure Material	ABS
Display	4X8 Chinese or 4X16 English, Backlit
Measuring Unit	Meter, ft, m <sup>3</sup> , liter, ft <sup>3</sup> , gallon, barrel etc.
Energy Unit	Unit GJ, Opt: KWh
Communication Output	4~20mA, OCT, RS232, data logger
Security	Keypad lockout, System lockout
Size	270*246*175mm
Weight	3kg

#### • Transducer

Protection Class	IP67
Fluid Temperature	Std.Transducer -40°C ~ 85°C (Max.120°C) High Temp. -40°C ~ 260°C
Pipe Size	20mm-6000mm
Transducer Size	S 20mm-50mm M 40mm-1000mm L 1000mm-6000mm
Transducer Material	Std. Aluminium alloy, High Temp. (PEEK)
Cable Length	Std. 5m (customized)



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### Model Selection >>>

<b>PUTF205</b>	<b>Portable Transit-time Ultrasonic Flow Meter</b>
<b>Powder Supply</b>	
A	85-265VAC (built-in chargeable battery)
<b>Output Selection 1</b>	
N	N/A
1	4-20mA
2	OCT (Std.flow rate, Opt: total flow)
3	S232
4	Data Logger
<b>Output Selection 2</b>	
Same as Above	
<b>Output Selection 3</b>	
<b>Transducer Type</b>	
S	DN20-DN50
M	DN40-DN1000
L	DN1000-DN6000
<b>Transducer Temperature</b>	
N	-40°C ~ 85°C (Max.120°C)
H	-40°C ~ 260°C
<b>Temperature Sensor</b>	
N	N/A
1	Clamp-on PT1000 (0-200°C)
<b>Pipe Size</b>	
XXX	020-20mm, 6000-6000mm
<b>Cable Length</b>	
5m	Std.5m
Xm	Common Cable, Max.300m
XmH	High Temp. Cable

For Example: PUTF205-A-4/MNN-05

Stands for: PUTF205 portable transit-time ultrasonic flow meter, data logger, M transducer, cable length 5m.