PRISMA Instruments
& Gauge Bourdon France

DUS-TT-P PORTABLE ULTRASONIC FLOW METER

CARACTERISTIQUES

- **Non-intrusive transducers**

No pressure drop, no line intervention

- **Wide measuring range**

DN15 to DN6000 ~ Several types of transducers

- **High measurement accuracy**

Accuracy: 1% ~ Linearity: 0.5 % ~ Repeatability: 0.2 %

- **Menu & functions in French**

Ergonomic and intuitive menu

- **Communications Interface**

RS-232, 75-57600 bps, compatible with Fuji flowmeters

- **Integrated data logger**

2000 lines of recording data

- **Large 4×16 character LCD screen**

Display of instantaneous flow, cumulative flow, speed, volume

- **Large battery capacity**

Built-in Ni-MH battery, autonomy 12 hours in operation

- **Compact size**

Size: 210×90×30mm ~ Weight: 0.5 kg

- **Factory calibration certificate as standard**

- **COFRAC ISO17025 certificate optional**

CE

ISO 17025

Portable ultrasonic flow meter
DUS-TT-P

DESCRIPTION

We present to you our latest version (version 8.xx) of the DUS-TT-P ultrasonic flowmeter, manufactured with high performance patented technologies and equipped with additional features.
The new version 8.xx retains most of the already excellent functions of the previous version, the main improvements concern the battery power circuit and the latest generation transmission circuits as well as a menu completely in French.
Prisma Instruments' DUS-TT-P portable ultrasonic flowmeter is designed for a small footprint and high measurement efficiency. It uses the principle of transit time and MultiPulse technology. It can be used for mobile flow measurements, for leak checks, or for flow calibration and control of various flow meters, etc. Originally designed to measure clean liquids, it nevertheless allows reliable and precise measurements on liquids moderately loaded with particles or gaseous bubbles (turbidity <10000 ppm). It can therefore be used on a wide variety of liquids: ultra-pure liquids, drinking water, oils, gasoline, fuel, diesel, alcohol, beverages, chemical and industrial effluents, irrigation, cooling water, waste water, etc.

The DUS-TT-P flowmeter is easy to implement and handle. Thanks to its non-intrusive transducers, usable on pipes ranging from 15mm to 6000mm, to its battery life, to its integrated data logger as well as to its countless functionalities, the DUS-TT-P will become your ideal tool. for all your measurements
flow in the field.

APPLICATIONS

- Waters (hot water, cooling water, drinking water, sea water, etc.)
- Petroleum products
- Chemicals, alcohol, detergents, acids, etc.
- HVAC, energy measurement system
- Food and pharmaceutical beverages
- Pretreated wastewater (turbidity <10000 ppm)
- Power plants (nuclear, thermal and hydroelectric plants)
- Thermal energy water
- Applications in metallurgy and mining
- Pipeline leak detection, inspection, tracking and collection

Portable ultrasonic flow meter
DUS-TT-P

PRISMA Instruments

SPECIFICATIONS

Portable flowmeters DUS-TT-P	
Principle	Transit Time Ultrasonic Flowmeter
Type of liquid	Clear or moderately charged liquids with particles or gaseous bubbles (turbidity <10000 ppm)
Precision	±1%
Linearity	0.5%
Repeatability	0.2%
Response time	0~999 seconds configurable
Communication	RS-232, 75-57600 bps, Frequencies, Alarms
Display	Large 4x16 character LCD display
pipe diameter	15~6000mm
Built-in recorder	2000 lines of configurable recording data
Measures	Flow, Speed, Volume (net, positive and negative), Flow of the day
Unit of measure	9 different units of measurement (selectable per day, per hour, per minute or per day)
Totalizer	7 Digit, Positive and Negative Net Volume
Security	Screen lock, password unlock.
Type of fluid	Any single clear liquid that can transmit ultrasound
Fluid temperature	-30°C ~ 160°C
Turbidity	Not more than 10000ppm
Speed	0~±32m/s bidirectional
Humidity	85% RH
Feed	Built-in Ni-MH battery, autonomy 12 hours in operation 100V-240VAC adapter
Housing material	ABS
Dimensions	200*90*32mm
Weight	0.5 kg (including battery)

Non-intrusive transducers (2x 3 meters of cables)

Kinds	Reference Size		Temperatures
small duct	T-S1	DN15~100mm	-30~90°C
medium leads	T-M1	DN50~700mm	-30~90°C
Large conduit	T-L1	DN300~6000mm	-30~90°C
Small high temperature duct	T-S1H	DN15~100mm	-30~160°C
Medium high temperature duct T-M1H		DN50~700mm	-30~160°C
Large high temperature duct	T-L1H	DN300~6000mm	-30~160°C

Standard transducers

High temp transducers.

Non-intrusive transducers + mounting rail (2x 3 meters of cables)

Kinds	Reference Size		Temperatures
small duct	R-HS	DN15~100mm	-30~90°C
medium leads	R-HM	DN50~700mm	-30~90°C
Small high temperature duct	R-HS-HT	DN15~100mm	-30~160°C
Medium high temperature pipe R-HM-HT	DN50~300 mm		-30~160°C

Standard Rail Transducers

High Temperature Rail Transducers

CODE COMMANDE

Portable flow meter Reference: **DUS-TT-P**

2x Transducers (3 meters of cables)

T-S1	DN15 to 100mm	~ Fluid temperature -30~90°C
T-M1	DN50 to 700mm	~ Fluid temperature -30~90°C
T-L1	DN300 to 6000mm	~ Fluid temperature -30~90°C
T-S1-HT	DN15 to DN100mm	~ Fluid temperature -30~160°C
T-M1-HT	DN50 to DN700 mm	~ Fluid temperature -30~160°C
T-L1-HT	DN300 to 6000mm	~ Fluid temperature -30~160°C

2x Rail mounted transducers (3 meters of cables)

R-HS	DN15 to 100mm	~ Fluid temperature -30~90°C
R-HM	DN50 to 700mm	~ Fluid temperature -30~90°C
R-HS-HT	DN15 to DN100 mm	~ Fluid temperature -30~160°C
R-HM-HT	DN50 to DN300 mm	~ Fluid temperature -30~160°C

standard delivery

1x Portable ultrasonic flowmeter French menu 2x Transducers
2x 3 meters of connection cables
1x Built-in recorder 1x RS232 interface
1x Data transfer software 2x Fixing chains
1x AAA Ni-H 1 battery + Charger 1x Tape measure 1x Robust aluminum carrying case
1 x User manual in French

PRISMA-INSTRUMENTS
89 rue du Vallat
13400 Aubagne FRANCE
Such. : +33 (0)4 42 70 74 04
FAX: +33 (0)4 42 70 38 64
contact@prisma-instruments.com