

DUS-TT-FC

Compact Wall-mounted Ultrasonic Flowmeter



• High measurement accuracy

Accuracy: 1%

• Wide measuring range

DN15 to DN6000 ~ according to transducer type

• Energy meter option

Measurement of thermal energy and refrigeration

• Varied communication interface

Inputs: RS-485 Modbus RTU ~ 1x 4-20 mA ~ 1x Pulse ~ 1x Relay

Outputs: 3x 4-20mA • Integrated data logger

SD card slot

• IP67 Flowmeter ~ IP68 Transducers

Suitable for wet environments, protected against water spray

• Compact Design & Robust

Dimensions: 13 cm × 15 cm × 8 cm ~ Weight: 1 kg







IP67







Series: DUS-TT-FC



Présentation

DUS-TT-FC ultrasonic flowmeter is an design and very compact Wall-mount clamp-on ultrasonic flow meter. It uses the latest digital technology and low-voltage broadband pulse transmission. The instrument is tolerant of liquids with small amounts of air bubbles or suspended solids found in most industrial environments. With distinctive features such as high accuracy, high reliability. DUS-TT-FC can be applied to a wide range online measurent. With his Convertor protection class IP67 & transducer protection class IP68, It can be used in a very humid environment in complete safety.

A variety of liquid applications can be accommodated: ultra-pure liquids, portable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent...

Designed to be user friendly, easy to operate. Users can finish installations within just a few minutes.

Suitable for measurement in many different working conditions.

Application

- Service and maintenance
- Replacement of defective devices
- Support of commissioning process and installation
- Performance and efficiency measurement

Evaluation and assessments

Capacity measurement of pumps

Monitoring of regulating valves

- Energy efficiency audits
- water industry hot water, cooling water, potable water, sea water...
- Petrochemical industry
- Chemical industry -chlorine, alcohol, acids, .thermal oils.etc
- Refrigeration and air conditioning systems
- Food , beverage and pharmaceutical industry
- Power supply, nuclear power plants, thermal & hydropower plants Heat energy boiler feed water...
- Metallurgy and mining applications

Assembly type



Clamp-On Transducers



Intrusif Transducers



On Pipe



Clamp-On Heat meter option

Series: DUS-TT-FC



Spécification

Reference : DUS-T	T-FC
Туре	Standard ~ Option ATEX (Ex II 2G Ex d IIB T6)
Principle	Ultrasonic flowmeter with transit time
Accuracy	±1%
Output	$1x - 4-20 \text{ mA} \sim 1x \text{ impulsion} \sim 1x \text{ relay}$
Inputs	3x 4-20 mA, qccuracy 0.1 % (acquisition of temperature, pressure or level signal)
Communication	RS485 Modbus RTU Interface
Datalogger	SD Slot
Display	Backlit LCD display 2x 20 characters
Commands	16 keys
Environnement	-20°C ~ 60 °C
Material	IP67 molded aluminum
Fluid	Any single, clear liquid that can transmit ultrasound (up to 2% suspended particles)
Pipe Type	Any pipe uniform with a single material
DN	15~6000 mm
Pipe Length	10D upstream, 5D downstream, 30D pump
Temperature	Environnement -20 ~ 60 °C
Turbidity	Not more 10000 ppm
Velocity	0~± 12 m/s
Humidity	85% RH; the transducers can measure under water, depth ≤2m
Power Supply	DC8~36V or AC85~264V
Consumption	1,5 W
Dimensions	Standard: 138*150*85 mm ~ 1 Kg

TRANSDUCERS 2x 5m cable in standard							
Types	Ref.	DN mm	Temperatures	Accuracy			
	TS	DN15~100	-40 °C~90°C	1%			
Clamp-On	TM	DN50~1000	-40 °C~90°C				
	TL	DN300~6000	-40 °C~90°C				
Clamp-On High Temperature	TS-HT	DN15~100	-40 °C~160°C	1 %			
	тм-нт	DN50~700	-40 °C~160°C				
Insertion	TI	DN80~6000	-40 °C~160°C	1%			
mserdon	TIL	D11001-0000	10 C-100 C	170			
	G3	DN15~25					
In line	G2	DN32~40	-40 °C~160°C	0,5%			
	G1	DN50~6000					









TRANSDUCTEUR With Mounting rail

 RS
 DN15~DN100 mm ~ Temperature -30 °C~90°C

 RM
 DN50~DN300 mm ~ Temperature-30 °C~90°C

 RL
 DN300~DN700 mm ~ Temperature -30 °C~90°C

 RS-HT
 DN15~DN100 mm ~ Temperature -30 °C~160°C

 RM-HT
 DN50~DN300 mm ~ Temperature -30 °C~160°C



Rail avec réglette

Series : DUS-TT-FC



Heatmeter option

RTD PT100							
Types	References	DN	Temperatures	Stop Process			
Clamp-on	SNI	≥DN40	-40~160°C	NO			
Clamp-on	SNI2	≥DN15	-40~160°C	NO			
Insertion	SI-1	≥DN50	-40~160°C	Yes			
Insertion faible Low DN	SI-2	< DN50	-40~160°C	Yes			
Insertion in charge	SI-3	≥DN50	-40~160°C	NO			





Mounting bracket

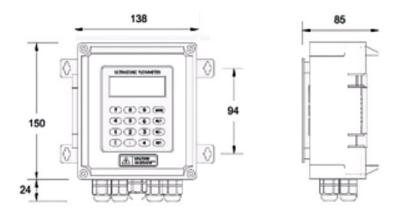


Wall-mounted



Rail mounting

Dimensions



Series: DUS-TT-FC



Codification

