

Caractéristiques

• High measurement accuracy

Accuracy: 1%

• Wide measurement range

DN15 to DN6000 ~ depending on type of transducers

• Energy meter option

Measurement of thermal and cooling energy

• Varied communication interface

Inputs: RS-485 Modbus RTU ~ 1x 4-20 mA ~ 1x Pulse ~ 1x Relay Outputs: 3x 4-20mA

• Integrated data logger

2GB SD card slot

• IP67 flow meter ~ IP68 transducers

Does not fear splashing water or humid environments

Compact & Robust

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

















Présentation

Our new DUS-TT-FC ultrasonic thermal energy meter & flowmeter is designed for minimum size and ease of use.

It uses the Transit Time principle and MultiPulse technology. It allows reliable measurements on a wide variety of liquids: ultra-pure liquids, drinking water, chemical effluents, waste water, irrigation, cooling water, industrial effluents etc.

The DUS-TT-FC is easy to use and the installation is done hot without any modification necessary on your process.

Thanks to its non-intrusive transducers and temperature probes, which can be used on pipes ranging from 15 mm to 6000 sommd recorder integrated, and its varied communication interface, the DUS-TT-PC flowmeter is the ideal tool for your flow rate measurements and of energy on any type of pipeline.

Application

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

Modèles de montage



Non-intrusive transducers



Intrusive transducers



Flanged Cuff Transducer



Non-intrusive energy meter

Fixed ultrasonic flow meter

Series: DUS-TT-FC



Spécification

Reference: DUS-TT-F	C
Models	Standard ~ ATEX option (Ex II 2G Ex d IIB T6)
Principle	Transit Time Ultrasonic Flowmeter
Precision	±1%
Repeatability	±0.2%
Exits	1x 4-20 mA ~ 1x pulse ~ 1x relay
Starters	3x 4-20 mA, accuracy 0.1 % (temperature, pressure or level signal acquisition)
Communication	RS485 Modbus RTU serial interface
Built-in recorder	SD card
Display	2x 20 character backlit LCD display
Orders	16 keys
Environment	-20°C ~ 50°C
Material	Cast aluminum IP67
Fluid	Any single, clear liquid capable of transmitting ultrasound (2% max. of suspended particles)
type of pipe	Any uniform and uni-material pipeline
pipe diameter	15~6000mm
Blowjob length	10D upstream , 5D downstream, 30D from the pump
Temperature	Environment -20~60°C
Turbidity	Not more than 10000ppm
Speed	0~±12m/s
Humidity	85% RH; transducers can measure underwater, depth ÿ2m
Feed	DC8~36V or AC85~264V
Consumption	1.5W
Dimensions	Standard: 138*150*85mm ~ 1Kg

TRANSDUCERS 2x	
5m of cables as standard	(other lenaths on request)

Jili di cables as statidata (ottier lengths di request)				
	Ref. DN	mm Temperat	ures Types	Precision
	TS	DN15~100 -40°	C~90°C	1%
Non-intrusive	TM	DN50~1000 -40)°C~90°C	
	TL	DN300~6000 -4	10°C~90°C	
Non-intrusive high	TS-HT DN	15~100 -40°C~1	1%	
temperature	TM-HT DN	√50~700 -40°C~1		
Insertion	IT	DN80~6000 -40°C~160°C		1%
	IT	D1100 0000 10	7 6 100 6	170
	G3	DN15~25		
Headlines	G2	DN32~40	-40°C~160°C	0.5%
	G1	DN50~6000		









TRANSDUCER ON MOUNTING RAILS

 RS
 DN15~DN100mm ~ Temperature -30°C~90°C

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

 RL
 DN300~DN700mm ~ 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 with ruler

Series: DUS-TT-FC



Option compteur d'énergie

PT100 TEMPERATURE PROBES					
Kinds	DN references		Shutdown Temperat	ures water	Precision
Non-intrusive	NIS	ÿDN40 -40~	160°C	NOPE	ÿ 0.1°C
Non-intrusive	SNI2	ÿDN15 -40~	160°C	NOPE	ÿ 0.1°C
Insertion	SI-1	ÿDN50 -40~	160°C	YES	ÿ 0.1°C
Low DN insert	SI-2	< DN50 -40-	-160°C	YES	ÿ 0.1°C
Loaded insertion	SI-3	ÿDN50 -40~	160°C	NOPE	ÿ 0.1°C



Kit de montage





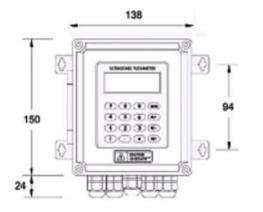


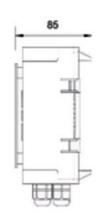
Wall mounting



Rail mounting

Dimensions





Fixed ultrasonic flow meter

Series: DUS-TT-FC



Codification

		Reference	: DUS-TT-FC	XXXX
Mo	odel			
1 - Star				
	ATEX (Ex II 2G Ex d IIB T6)			
Z - LX /	(LX II 20 LX d IID 10)			
Types	Transducers			
TC	DN45 DN400mm			
TS TM	DN15~DN100mm			
TL	DN50~DN1000mm DN300~DN6000mm			
	DN15~DN100mm			
	DN50~DN700mm			
IT IT	DN80~DN6000mm DN80~DN6000mm			
G3	DN15~DN25mm			
G2	DN32~DN40mm			
G1	DN50~DN6000mm			
_	N50~DN4000 mm Atex			
	THOSE DIVIGOS TIME / NEX			
Transd	ucer mounting rail			
RS				
RM				
RL				
RS-HT				
RM-HT				
RL-HT				
Energy	meter option			
	temperature sensors	(4 <u>-</u>		
	-			
SNIÿDN4	10 _			

SNI2 ÿDN15 SI-1 ÿDN50 SI-2 < DN50 SI-3 ÿDN50