

# Medidor de flujo ultrasonico en líquidos, Outup: 4-20ma & RS485, Meacon

MC-SUP1158S

www.twilight.mx







Insertion

The fixed separated model is inline measurement for long-term.

There are 3 types convertors including wall mounted, panel mounted and proof-explosion.

Convertors can be installed at indoor or instrument cabinet Transducers should be installed on the measuring pipe; Convertor and transducer be connected by cable.

#### | Features |

- High Accuracy 1%
- Wide measuring range Several types transducer for selection, pipe size from Dn15mm to Dn6000mm
- High Reliability Adopt low voltage, multi-pulse technology to improve accuracy, useful life and reliability.

clamp on

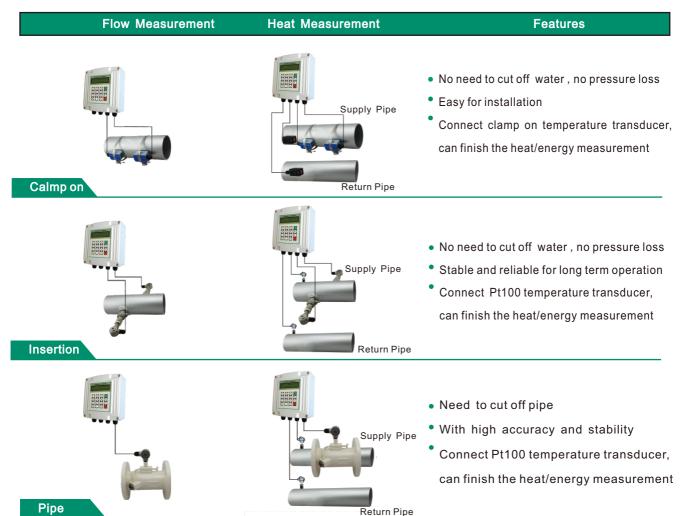
- Strong Anti-interference Dual-balance signal differential receiver/driver circuit to avoid interference of converter, TV tower, high voltage line etc.
- Powerful Recording Function
  - Automatically record the following data:
  - 1. The totalizer data of the last 512 days/128 months/10 years
  - 2. The time and corresponding flow rate of the last  $64\ \text{times}$  of power on and off events
  - 3. The working status of the last 32 days
- Support Heat Measurement

Connect the temperature transducer, can finish the heat/energy measurement

• Support SD card Memory Optional SD card

#### |Liquid Type|

This flowmeter can be virtually applied to a wide range of measurement. A variety of liquid applications can be accommodated: ultra-pure liquids, potable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent. etc



#### |Measuring Diagram|

#### | Optional Convertor |

According to different installation condition, pls choose relative convertor



- Wall mounted SUP 1158 SW
- Wall mounting installation
- Dimension : 170×180×56mm
- Power supply: DC8<sup>~</sup>36V orAC85<sup>~</sup>264V
- Panel mounted SUP -1158 SS
- Instrument cabinet installation
- Dimension : 170×180×56mm
- Hole-opening dimension 152×76mm
- Power supply: DC8<sup>~</sup>36V or AC85<sup>~</sup>264V

#### | Optional Transducers |

Types	Picture	Spec.	Model	Measurement Range	Temperature	Dimension	
	<b>%</b>	Small Size	TS-2	DN15 <sup>~</sup> DN100	<b>−30<sup>~</sup>90°</b> C	45×25×32mm	
Clamp on		Medium Size	TM-1	DN50 <sup>~</sup> DN700	- <b>30<sup>~</sup>90</b> ℃	64×39×44mm	
		Large Size	TL-1	DN300 <sup>~</sup> DN6000	- <b>30<sup>~</sup>90</b> ℃	97×54×53mm	
	*	Small Size	TS-2-HT	DN15 <sup>~</sup> DN100	<b>−30<sup>~</sup>160</b> °C	45×25×32mm	
High temp		Medium Size	TM-1-HT	DN50 <sup>~</sup> DN700	<b>−30<sup>~</sup>160</b> °C	64×39×44mm	
clamp on		Large Size	TL-1-HT	DN300 <sup>~</sup> DN6000	<b>−30<sup>~</sup>160</b> ℃	97×54×53mm	
Insertion		Standard	TC-1	DN80 <sup>~</sup> DN6000	<b>−30<sup>~</sup>160</b> °C	190×80×55mm	
insertion		Lengthen	TC-2	DN80 <sup>~</sup> DN6000	<b>−30<sup>~</sup>160</b> °C	335×80×55mm	
		$\pi$ type	G3	DN15 <sup>~</sup> DN25	<b>−30<sup>~</sup>160</b> ℃		
Pipe		Standard	G2	DN32 <sup>~</sup> DN40	<b>−30<sup>~</sup>160</b> ℃	Pls refer to detailed pipe dimensions	
		Standard	G1	DN50 <sup>~</sup> DN6000	-30 <sup>~</sup> 160℃		

#### |Optional Temperature Transducers |

Picture	Specification	Model	Meas. Range	Temperature	Cut of water	Accuracy
	Clamp on temperature Transducer Pt100	CT-1	≥DN50	-40 <sup>~</sup> 160℃	No	
<b>_</b>	Insertion temperature Transducer Pt100	TCT-1	≥DN50	-40 <sup>~</sup> 160℃	Yes	100℃ ± 0.8℃
	Insertion Pt100 Installation with pressure	PCT-1	≥DN50	-40 <sup>~</sup> 160℃	No	100 C ± 0.8 C
$\bigcirc$	Insertion Pt100 Small size pipe diameter	SCT-1	<dn50< td=""><td>-40<sup>~</sup>160℃</td><td>Yes</td><td></td></dn50<>	-40 <sup>~</sup> 160℃	Yes	

#### | Optional SD card memory |

The SD card memory can be expanded to 2GB, which can achieve the ultrasonic flowmeter measurement data mass storage, can solve the problems for wall-mounted flowmeter measurement data stored, reading, and processing inconvenience, can completely replace manual meter reading, no paper records instrument.

In addition, the SD memory card measurements data, can be used by our company's "Flow data analysis, statistical software" for processing, including the tabulation, statistical, data analysis, printing reports, production flow curve

#### Raw Data









Instantaneous Flow Curves

Generated by Software

SD card memory of wall mounted

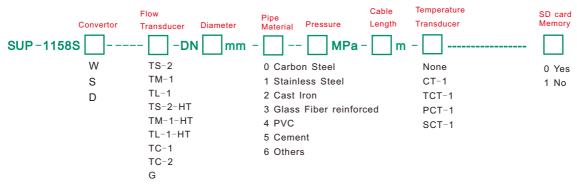
• Cumulative Flow Bar Chart Generated by Software



#### | Datasheet |

Items	Performance & Parameter					
Convertor	Principle	Transit-time ultrasonic flowmeter				
	Accuracy	± 1%				
	Display	2 imes20 character LCD with backlight, support the language of Chinese, English and Italy				
	Signal Output	1 way 4 <sup>~</sup> 20mA output, electric resistance 0 <sup>~</sup> 1K, accuracy0. 1%				
		1 way OCT pulse output (Pulse width $6^{\sim}1000$ ms, default is $200$ ms)				
		1 way Relay output				
	Signal Input	3 way 4 <sup>~</sup> 20mA input, accuracy 0. 1%, acquisition signal such as temperature, press and liquid level				
		Connect the temperature transducer Pt100, can finish the heat/energy measurement				
	Data Interface	Insulate Rs485 serial interface, upgrade the flowmeter software by computer, support the MODBUS				
Special Cable	Twisted-pair cable, generally, the length under 50 meters; Select the RS485, transmission distance can over 1000m					
Pipe Installation Condition	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed				
	Pipe Diameter 15 <sup>~</sup> 6000mm					
	Straight Pipe	Transducer installation should be satisfied: upstream10D, downstream 5D, 30D from the pump				
Measuring Medium	Type of Liquid					
	Temperature −30 <sup>~</sup> 160°C					
	Turbidity	No more than 10000ppm and less bubble				
	Flowrate	0~±7m/s				
Working Environment	Temperature	Convertor: -20 <sup>°</sup> 60°C; Flow Transducer: -30 <sup>°°</sup> 160°C				
	Humidity	Convertor: 85%RH; Flow Transducer: can measure under water, water depth <2m (tansducer sealed glue)				
Power Supply	DC8 <sup>~</sup> 36V or AC85 <sup>~</sup> 264V (optional)					
Power Consumption	1. 5W					
Dimension	170*180*56cm(convertor)					

#### |Ordering Code |



Example SUP-1158SW+TM-1+DN300+0+1.6MPa+10m+PCT-1+0

PS: Standard confirguration=SUP-1158SW(convertor)+TM-1+5M cable +Steel belt (DN200) +Couplant(1 pc)



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