Coriolis mass flow meters-TERCMF-US

1. Overview：

Walsn’s US Series Coriolis mass flow meters use a classic U-shape for their flowtubes. The Walsn mass flow meter is equipped with a transmitter utilizing a digital signal processor (DSP), integrated with digital closed-loop vibration control (DLC), which performs calculations and monitors diagnostic functions of the sensor. This provides high accuracy measurement, wide range ability and excellent reliability for you. Online node-configuration, diagnostics and data recording can be handled directly through a Hart communicator or Modbus. Walsn’s US Series flowmeter not only provides mass flow rate, but can also calculate: density, temperature volumetric flow rate, total flow and component fractions online and in real-time

2、Features：

◆ U shape design – provides excellent stability and repeatability

◆ Dedicated ASIC with digital closed-loop control (DLC) improves the performance of gas-liquid flow measurement

◆ Dynamic vibration balance (DVB) technology enhances system stability

◆ 2-point temperature compensation and process pressure compensation

◆ Special configurations for difficult applications (e.g. high temperature)

3、Applicable Fluids

◎Gases

◎ Slurries

◎ Liquids

4、Typical Applications：

◎Custody transfer

◎ Reactor feed ratio

◎ Density measurement

◎ Batch control

5、Specifications：

Basic Error	Liquid: ±0.10%; Gas: ±0.35%; Liquid density error: ±0.0005g/cm^3
Diameter(mm)	DN1～DN250
Anti-explosion	CSA/PCEC/ATEX/IEC
Flange	316L/Titanium/Hastelloy alloy/Other materials required by users
Pressure Rating	10MPa
Material	Measuring tube: 316L， Titanium Alloy
Protection Level	IP65, IP67, IP68 (Remote Style Options only)
Medium Temperature	-40℉~356℉ (-40℃~180℃); -40℉~662℉ (-40℃~350℃); -400℉~662℉ (-240℃~350℃)
Ambient Temperature	-25℃—60℃ (-13℉—140℉) (with LCD); -40℃—85℃ (-40℉—185℉) (without LCD)
Repeatability	Liquid: ≤0.05%; Gas: ≤0.17%
Cable for Sensor	10m (The divided type is optional.)
Electronic Connection	M20*1.5 Seal, NPT1/2
Output signal	Analog + Pulse/Frequency; Analog+ Pulse/Frequency + HART; Analog+ PulseFrequency + RS485; Profibus PA/DP; FF; Specially customized