

Industrial and laboratory instrumentation equipment manufacturer (Knowledge-based Company)

Coriolis Mass Flowmeter PTMas

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actome RP U S1

PTCMF

Inline Refractometer
Laboratory Refractometer

Inline Conductivity meter

Laboratory Conductivity meter

Electromagnetic Flowmeter
Coriolis Mass Flowmeter

PrismaTech Coriolis Mass Flowmeter PTMas

A Coriolis mass flowmeter is based on the principles of motion mechanics. When the process fluid enters the sensor, it is split. During operation, a drive coil stimulates the tubes to oscillate in opposition at the natural resonant frequency. As the tubes oscillate, the voltage generated from each pickoff creates a sine wave. This indicates the motion of one tube relative to the other. The time delay between the two sine waves is directly proportional to the mass flow rate. In addition, the fluid density can also be determined from the oscillation frequency of the measuring tubes. The temperature of the measuring tube is also registered to compensate thermal influences. The process temperature derived from this is available as an additional output signal. PrismaTech Coriolis Mass Flowmeter PTMas has been designed based on the state-of-the-art technologies to meet the requirement of all industries such as food and beverage, oil and gas, wastewater, and so on. These flowmeters are constructed in various sizes, and they can simultaneously measure multiple parameters such as mass flow, density, volumetric flow, Brix, and finally fluid temperature.

Characteristics

- Universal measuring principle for liquids and gases
- Multivariable measurement simultaneous measuring of mass flow, density, temperature, volumetric flow, and Brix
- High flow measuring accuracy: ±0.1%
- High density measuring accuracy: ±1kg/m3
- High zero stability
- Measuring principle independent of the physical fluid properties and the flow profile
- Fully temperature compensated
- Robust against environmental mechanical vibration
- Various sizes from DN8 up to DN250







جدول سایزهای فلومتر جرمی کوریولیس

Model	Α	В	С	D	L	н	Т
PTMas08-S-01-16-24	39	240	95	41.5	367	255	119
PTMas08-T-01-16-24	39	240	120	41.5	367	280	119
PTMas08-U-01-16-24	34	120	145	41.5	229	305	119
PTMas08-V-01-16-24	34	120	100	41.5	229	260	119
PTMas15-S-01-16-24	49	261	99	47.5	398	259	119
PTMas15-T-01-16-24	49	245	128	47.5	398	288	119
PTMas15-U-01-16-24	39	172	173	47.5	273	333	119
PTMas15-V-01-16-24	39	148	118	47.5	273	278	119
PTMas25-S-01-16-24	48	296	108	59	434	268	119
PTMas25-T-01-16-24	48	276	146	59	434	306	119
PTMas25-U-01-16-24	42	205	225	59	324	385	119
PTMas25-V-01-16-24	42	200	154	59	324	314	119
PTMas40-S-01-16-24	61	386	145	71	558	305	119
PTMas40-T-01-16-24	61	372	207	71	558	367	119
PTMas40-U-01-16-24	55	310	243	71	456	403	119
PTMas40-V-01-16-24	55	280	209	71	456	369	119
PTMas50-S-01-16-24	79	486	185	100	720	345	119
PTMas50-T-01-16-24	79	443	268	100	720	428	119
PTMas50-U-01-16-24	64	370	377	100	562	537	119
PTMas50-V-01-16-24	64	340	268	100	562	428	119



Ordering Method

PTMas 51 - S- 01- 16 - 24

Basic Model Name

Power Supply

Options: <u>24</u>: 24VDC <u>220</u>: 220VAC

Tube Material

Options: 16: Stainless Steel AISI 316L 04: Stainless Steel AISI 304L <u>H</u>2: Hastelloy C276

Connection Type

Options: <u>01</u>: 3A Clamp <u>02</u>: Flange <u>03</u>: Tube Nut

Tube Type

Options: S: S-Shaped T: Trapezoid Shape U: U- Shaped V: V- Shaped R: Straight- Shaped

Pipe size

Options: Metric: 08, 15, 25, 38, 51 <u>DN</u>: 08, 15, 25, 40, 50



Our other services

- Calibration of flowmeter and refractometer based on standard ISO 17025
- Carrying out custom projects in the field of automation and instrumentation
- Custom electronic boards design

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