



MODEL# 600-9SAN & 600-9UHP Thermal Mass Flow Meters

FOR YOUR SANITARY OR ULTRA
HIGH PURE FINISH REQUIREMENTS

KEY FEATURES:

- ◇ Measurement of both Gases & Liquids
- ◇ Available as Flow Switch
- ◇ 316L Electro-Polished Stainless Steel Material
- ◇ 10—15 RA Internal Finish
- ◇ Robust Welded Construction
- ◇ “CIP / SIP” Clean in place design
- ◇ 100:1 Turndown Available
- ◇ Unobstructed Flow Thru Tube
- ◇ No Moving Parts
- ◇ Negligible Pressure Drop
- ◇ Tri-Clamp, VCO, VCR, and Stub Weld Process Connections
- ◇ Available in sizes from 1/8” OD to 4” OD Tube
- ◇ Designed & Manufactured in the USA



Proven Success in the following Applications & Processes:

- ◇ DI Water for CIP processes
- ◇ UHP & Clean Gas Measurement
- ◇ Semiconductor processes
- ◇ Pharmaceutical processes
- ◇ Food & Beverage processes

simplifying

MASS FLOW MEASUREMENT

Thermal Instrument Mass Flow Meters

Thermal Mass Flow Meters for Clean, Sanitary, and Ultra High Pure Applications

Performance:

Media: Liquid or Gas

Accuracy: $\pm .50\%$ of Full Scale or 2% of Reading. Full Scale over calibrated range.

Repeatability: $\pm 0.2\%$ of Rate

Response Time: 1 to 2 Seconds for Gases. $< 500\text{ms}$ for Liquids.

Turndown: Up to 100:1

Fluid Temperature: Span $\pm 50^\circ\text{F}$ from operating temperature

Design:

Material: 316L Electro-Polished Stainless Steel

Internal Finish: 10—15 RA

Sizing: $\frac{1}{8}$ " to 4" Tubing

Flow Path: Unobstructed

Connections: Tri-Clamp, VCO, VCR, and Tube Ends

Electronic Transmitter:

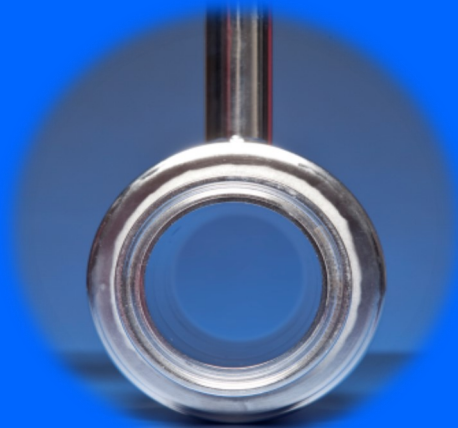
Mounting: Integral (Model # 9500PI) or Remote (Model # 9500PR, 9200B, 926A)

Outputs: Flow, Totalized Flow, and Temperature

Output Signal: 4-20mADC, Pulse, Hart, RS485 Modbus

Display: 8 Digit Flow & Totalized Flow

Optional programmable transmitter to allow changes to Line Size, Filter Factor, Flow Factor, and Flow Cutoff Factor.



Thermal Instrument Mass Flow Meters have been used across many industries in a variety of liquid and gas applications. We introduced our unobstructed in-line model for sanitary, clean, and ultra high pure applications in the 1980's. Since then, they have been utilized in pharmaceutical, semiconductor, and numerous food and beverage applications to name a few. The flow element can be supplied with an integral or choice of remote electronic transmitters that provide Flow, Totalized Flow, and Temperature outputs. Upon request, Thermal Instrument can deliver a flow instrument that has been cleaned, pressure, and particle tested in a Class 100 Cleanroom.

Contact Thermal Instrument or one of our sales partners to find out more information.



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