



MODEL# 62-9/9500P Thermal Mass Flow Meter

PROVIDING FEATURES THAT
OFFER VALUE ADDED BENEFITS

- ◇ Flow Rate Measurement of Gases & Liquids
- ◇ Available as Flow Switch
- ◇ Sturdy 316 Stainless Steel Material Standard
- ◇ Corrosion Resistant Materials Available such as Hastelloy, Monel, Inconel, and others
- ◇ Single Piece Welded Construction
- ◇ Redundant Non-Wetted Sensors
- ◇ 10:1 Turndown or greater. Multiple Ranges Available.
- ◇ No Moving Parts
- ◇ Negligible Pressure Drop
- ◇ Compression Packing Gland or Flange Process Connection
- ◇ Available for line sizes 1.5" and greater
- ◇ NIST Traceable Calibration
- ◇ Designed & Manufactured in the USA



Our Model # 62-9 Thermal Mass Flow Meter is our most versatile flow measurement instrument. It is easily placed into both liquid and gas applications for accurate measurement of your process. It is available with our Model # 9500P Integral Electronics allowing the end user to view Flow Rate and Totalized Flow Rate on a bright LED display.

Custom Length probes are available. Process connections such as Hot Tap, Tri-Clover, and Welded Union Connection for High Pressure applications.

Our Dual Tip Model # 62-9DT is available for line sizes as small as 1½", High Temperatures, and wide flow ranges.

simplifying

MASS FLOW MEASUREMENT

Thermal Instrument Mass Flow Meters

Insertion Probe Mass Flow Meter Available with Integral or Remote Electronics

Design Features:

- Non-wetted sensors mounted on inner surface of the flow tube allow for measurement of Gases, Liquids, and Slurries
- Built in Redundant Sensors
- Various Probe OD's and Lengths to suit wide ranging flow applications
- 316SS construction material standard. Hastelloy, Monel, Titanium, and others are available by request
- Protective and high release coatings available
- Available as a Multi-Point design to capture irregular flow profiles in large lines such as ducts or stacks
- Bi-Directional capability for measuring flow coming from both directions
- 4-20mA Flow Output standard. Pulse, Hart, and RS485 Modbus Communication available.
- Isolated 4-20mA Temperature Output available

Design Specifications:

Wetted Materials	316SS (Std.) Consult Factory for others
Process Connections	Compression, Flange, Hot Tap, Tri-Clover
Probe Size (OD)	½", ¾", 1", 1½", 2"
Probe Length	9", 14", 25" (Std.). Custom Lengths Available

Calibration Fluids:

Gases:

All inert, clean, UHP, and non-condensing
Flammable, Hydrogen, Hydrocarbons, and corrosive

Liquids:

Water, Oil, Hydrocarbons, and solvents

Contact factory for others

Engineering Specifications:

Accuracy:	±0.50% of Full Scale or 2% of reading. Process Fluid Temperature Span ±50°F
Repeatability:	± .20% of Rate
Turndown	10:1 Std. 1000:1 Application Dependent
Response Time:	Gases—1 to 2 Seconds Liquids— < 500ms.
Pressure Rating	0 –1200 psig (Std).
Mass Flowrates	Gas 40—50,000 SFCM Liquid .02—20 FPS
Temperature	-40—350°F (Std) , -40—175°C (Std.) Optional High Temps to 500°F (260°C)

Transmitter Specifications (Integral or Remote):

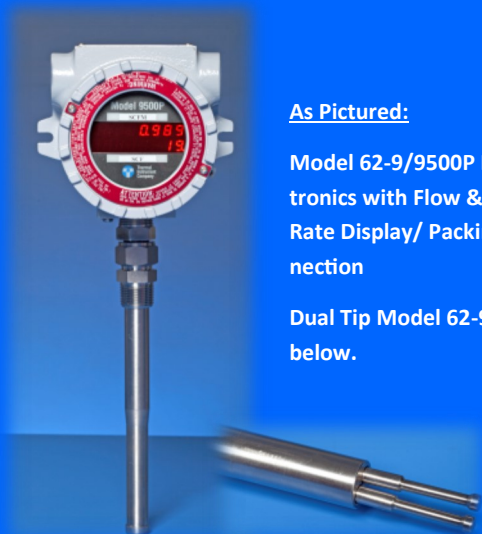
Display	8 Digit Flow Rate & Total Flow Rate
Power	120 / 240 VAC, 50/60 Hz 24 VDC, 1 Amp
Output	4-20MADC Flow (Std.) Pulse Output (Opt.) 4-20 MA Process Fluid Temp. (Opt.) 0-5 VDC, 0-10 VDC Optional Modbus RS 485, Hart Communication (Opt.)
Remote	Up to 4000'. Signal Cable- 18 Gauge, 2 Pair with shield
	Communication via RS-232 Cable & 4 Button Menu System (Opt.)

Adjustable Variables:

Filter Factor, Flow Full Scale, Flow Factor, Pipe ID, Zero Cutoff %

Enclosure Specifications:

Cast Aluminum, Epoxy painted with window or blind	
Connection	¾" FNPT Power & Signal
Ratings	Nema 4, Explosion Proof, Class 1, Div 1 Groups B, C, D Weatherproof
Temperature	Ambient -13 to 140°F (-25 to 60°C) Storage -40 to 158°F (-40 to 70°C)



As Pictured:

Model 62-9/9500P Integral Electronics with Flow & Total Flow Rate Display/ Packing Gland Connection

Dual Tip Model 62-9DT pictured below.



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