



Model # 62-9DT Insertion Probe (Shown with 9500P Integral Transmitter)

Thermal Instrument Model # 62-9DT is designed to handle applications where line size, process temperatures, and flow rates are more challenging. The Dual Tip (DT) design allows it to be installed into line sizes as small as 1½" Pipe. The DT model can be used in applications where the process temperatures reach 500 °F (260°C). Can be Calibrated to conditions up to 1000:1 Turndown due to the sensor design.

The 62-9DT is built using the same tried and true Thermal Mass technology that you have come to know from Thermal Instrument Company.

Thermal Mass technology offers excellent accuracy, repeatability, and turndown with built in temperature and pressure compensation. Contact your Thermal Instrument Sales Associate to find out more.

Standard Features:

- ¾" OD
- ¾" MNPT Compression Fitting Connection
- 316SS Material
- (2) RTD High Temperature Platinum Sensors for Flow and Temperature
- Standard Lengths of 9", 14", and 25" to suit wide range of pipe sizes
- Can be married to Integral or Remote Electronic Transmitters and Flow Switches
 - 9500P Integral or 9500P Remote
 - 9200B Panel Mount Remote Electronics
 - 926 Remote Electronics
 - Flow Switch (FS & FS16)



Detailed View of Flow Sensors



Applications:

Gas Flow Measurement, Environmental Compliance, Flare Gas, Wastewater Treatment, Tank Storage Venting, Safety Monitoring, Aeration, Combustion Control, Compressed Air Monitoring, and Sub-Metering to name a few

Gases:

All Inert, Clean, and non-condensing gases. Hydrocarbons, Hydrogen, Flammables, and Corrosive

Liquids:

Contact Thermal Instrument Sales for specific applications

Thermal Instrument Mass Flow Meters

Model # 62-9DT Insertion Probe Mass Flow Meter

Thermal Mass Technology Advantages:

- Accurate
- Repeatable Measurements
- High Turndown up to 1000:1
- Capable of measuring low flow rates
- Non-wetted sensors do not come into direct contact with fluid
- Operates in varying pressures
- Temperature Compensated
- No Moving Parts

Options:

Wetted Materials:

316SS (Std.), Hastelloy-C, Tantalum, and others are available by request

Process Connections:

3/4" & 1" MNPT Compression Fitting, Insert Flange, Tri-Clover, Welded Union

Hot Tap Assembly with 1" Full Port Ball Valve

Mechanical Retractor System for High Pressure Applications

Probe Size (OD):

3/4", 1"

Probe Length:

9", 14", 25" (Std.). Custom Lengths Available

Protective Coatings Available:

Teflon, Others

Standard Installation:

10 pipe diameters before meter install point and 5 pipe diameters after meter without any piping changes. If those conditions cannot be met, Thermal Instrument, in some instances, can simulate piping in order to calibrate to installation conditions.



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Engineering Specifications:

Accuracy:

±0.50% of Full Scale**

Repeatability:

± .20% of Rate

Turndown:

10:1 Std. up to 1000:1 Application Dependent

Temperature Span:

Operating Temperature ± 50°F

Response Time:

Gases—1 Second

Flowrates:

Gas 30—85,000 SFPM

* Liquid Applications - Contact Factory

Pressure Rating:

Varies by Application & Process Connection

Temperature:

-40—500°F (Std), -40—260°C (Std.)

** Note—Accuracy of Meter Reading based on Air and meeting all piping conditions

Transmitter Specifications (Integral or Remote):

Display: 8 Digit Flow Rate & Total Flow Rate

Power: 120 / 240 VAC, 50/60 Hz

24 VDC, 1 Amp

Outputs: 4-20 MADC Flow (Std.)

4-20 MADC Temperature (Opt.)

Optional Outputs:

0-5 VDC, 0-10 VDC Optional

Pulse Output (Opt.)

Modbus RS 485

Hart Communication

Remote Up to 2000'. Signal Cable - 18 Gauge, 2 Pair with shield

Communication via Micro USB & 4 Button Menu System (Opt.)

Adjustable Variables:

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

Enclosure Specifications:

Cast Aluminum, Epoxy painted with window

Connection 3/4" 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)