Kurz Portable Air Velocity Meters are used worldwide because of their accuracy and extremely fast flow response measurements in a variety of industrial applications. The constant power, thermal flow technology used for all Kurz instrumentation supports a direct mass flow reading and flawless repeatability.

The Kurz Series 490 is recognized for its compact ruggedness. There are no moving parts to wear out or fail, and the sensors are resistant to dirt fouling. The high sensitivity applies to low velocities up through the entire flow range.

Kurz Instruments is dedicated to manufacturing and marketing the best thermal mass flow meters available and to support our customers in their efforts to improve their businesses.

Applications
- EPA and OSHA emissions regulations
- Environmental monitoring
- Flow calibration
- HVAC duct balancing
- Fume hood monitor / profiling
- Scrubber performance monitoring
- Extruder quench air monitoring
- Cleanroom air monitor / profiling
- Leak detection
- Cooling air flow monitor

Industries
- Hospitals & laboratories
- Pharmaceutical / biotechnology
- Safety & industrial hygiene
- Food processing
- Chemical processing
- Semiconductors
- Manufacturing
- Metals & mining
- Power plants
- Wastewater
**SERIES 490 SPECIFICATIONS & FEATURES**

- **Mass flow range**
  Up to 10,000 SFPM or 50 SMPS depending on model and gas type

- **Sensor process temperature rating**
  5°F to 158°F (-15°C to 70°C)

- **Accuracy**
  **490-iS:**
  \[ \pm (5\% + 0.03\%/\degree F) \text{ reading} + (20 \text{ SFPM} + 0.6 \text{ SFPM}/\degree F) \]
  **490-iS-iM:**
  \[ \pm (5\% + 0.0054\%/\degree C) \text{ reading} + (0.10 \text{ SMPS} + 0.0054 \text{ SMPS}/\degree C) \]
  (Temperature effect is referenced to 25°C (77°F))

- **0.50% FS reading repeatability**

- **Sensor support length**
  6” (152 mm)

- **Sensor support material**
  Epoxy fiberglass

- **Sensor wetted materials**
  Glass, epoxy, stainless steel

- **Sensor type**
  Low power

- **Probe cable length**
  72” coil cable (1829 mm)

- **Enclosure temperature range**
  5°F to 131°F (-15°C to 55°C)

- **Enclosure humidity range**
  0-95% noncondensing

- **Electronics enclosure size**
  4.88” H x 2.38” W x 1.38” D
  (124 mm H x 60.5 mm W x 35 mm D)

- **Power**
  Four AA alkaline batteries

- **Carrying case size**
  6.75” H x 8” W x 3.13” D
  (171.5 mm H x 203 mm W x 80 mm D)

- **Shipping weight**
  3 lb (1.36 kg)

- **Warranty**
  1 year (see Kurz online warranty for details)

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**Series 490 Maximum Dual Velocity Ranges**

All Series 490 models have dual 100:1 ranges.

<table>
<thead>
<tr>
<th>Standard Feet Per Minute (SFPM)</th>
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<tbody>
<tr>
<td>200 / 2,000</td>
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<tr>
<td><strong>490-iS</strong></td>
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<tr>
<td><strong>491-iS</strong></td>
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<td><strong>493-iS</strong></td>
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<table>
<thead>
<tr>
<th>Standard Meters Per Second (SMPS)</th>
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<tbody>
<tr>
<td>1 / 10</td>
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<tr>
<td><strong>490-iS-M</strong></td>
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<tr>
<td><strong>491-iS-M</strong></td>
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