

DIGITAL FLOW METERS TSI 5000 Series

The 5300 Series is TSI's high flow thermal mass flow meter. The 5300 Series can measure up to 300 Std L/min while maintaining a low pressure drop. These flow meters are lightweight and compact, especially when compared to other instruments that measure similar flow rates.

The 5200 Series is TSI's low flow thermal mass flow meter. These flow meters can measure up to 30 Std L/min and provide increased resolution at flow rates under 1 Std L/min. The 5200 Series flow meters are designed with reduced internal volume to minimize circuit dead space and deliver highly accurate volume measurements.

SPECIFICATIONS

- 4 millisecond bi-directional flow response
- High accuracy ($\pm 2\%$ of reading, $\pm 1.7\%$ of reading optional)
- Low pressure drop minimizes back pressure
- Wide dynamic operating range (1000:1 turndown ratio)
- Multiple gas calibrations available, user-selectable
- Measure up to 6 parameters with a single instrument - flow rate, absolute pressure, temperature, volume, differential pressure, and humidity
- Temperature and pressure compensated flow measurements, optional humidity compensation
- 2.8 inch color touchscreen operation
- Display four measurement parameters simultaneously
- Configurable tube end connectors
- Data logging options
- USB power and data communications
- NIST-traceable Calibration Certificate included
- All meters come with power supply, cables, tube end connectors, inlet filter, and FLO-Sight companion PC software



GAS MASS FLOW METER MODELS LIST

BASE MODELS:

Our 5000 Series Flow Meters Base Model Provide:

- Flow and Totalizer Measurements
- Temperature and Absolute Pressure Measurements

Base Models	Air, N ₂	Air, O ₂ , N ₂	Air, CO ₂ , N ₂	O ₂	CO ₂
± 30 L/min	<u>5200-1</u>	<u>5200-2</u>	<u>5200-3</u>	<u>5200-6</u>	<u>5200-7</u>
± 300 L/min	<u>5300-1</u>	<u>5300-2</u>	<u>5300-3</u>	<u>5300-4</u>	<u>5300-5</u>

ADVANCED MODELS:

Our 5000 Series Flow Meters Advanced Models provide all the features the Base Models include, as well as:

- Volume Measurements (displayed on the touchscreen)
- Differential Pressure Measurements
- Data Logging

Advanced Models	Air, N ₂	Air, O ₂ , N ₂	Air, CO ₂ , N ₂	O ₂	CO ₂
±30 L/min	<u>5210-1</u>	<u>5210-2</u>	<u>5210-3</u>	<u>5210-6</u>	<u>5210-7</u>
±300 L/min	<u>5310-1</u>	<u>5310-2</u>	<u>5310-3</u>	<u>5310-4</u>	<u>5310-5</u>

HUMIDITY MODELS:

Our 5000 Series Flow Meters Humidity Models provide all the features the Advanced Models include, as well as:

- Relative Humidity Measurements
- Humidity Compensation of the Air Flow Measurement

Humidity Models	Air, N ₂	Air, O ₂ , N ₂	Air, CO ₂ , N ₂	O ₂	CO ₂
±30 L/min		<u>5220-2</u>			
±300 L/min		<u>5320-2</u>			

HIGH ACCURACY MODELS:

Our 5000 Series Flow Meters High Accuracy Models provide all the features the Humidity Models include, as well as:

- Higher Accuracy (1.7% of reading)
- Tabletop Stand Accessory

High Accuracy Models	Air, N ₂	Air, O ₂ , N ₂	Air, CO ₂ , N ₂		CO ₂
±30 L/min		<u>5230-2</u>			
±300 L/min		<u>5330-2</u>			