TSI 4000/4100 Series Flowmeters are designed for a multitude of gas flow measurement applications. Whether measuring gas flows in a laboratory or manufacturing setting, TSI general-purpose flowmeters provide accurate results with multiple data output options. TSI general-purpose flowmeters come complete with accessories making setup and operation fast and convenient.

Highlights

- 4 millisecond flow response
- ±2% of reading for high accuracy
- High turndown ratio
- Low pressure drop
- Convenient analog output of flowrate
- Versatile digital output of flowrate, volume, pressure, temperature
- Built-in temperature and pressure compensation
- NIST-traceable calibration certificate included at no additional cost

BC Group International, Inc. 3081 Elm Point Industrial Dr St. Charles, MO 63301 USA 314-638-3800 1-888-223-6763 314-638-3200 Fax

TSI 4040/4140

Mass Flowmeters for Gases



Applications

- •Product Development, Prototypes, Production Testing:
 - -Ventilators
 - -Anesthesia systems
 - Secondary calibration standard
 - QA testing
 - Laboratory
 - -Aerosol science
 - -Gas blending
 - -Analytical instrumentation
 - -Carrier gas measurement
 - •Fuel cells
 - •Reformers



Low Flow-Model 4140/4143

Flow Measurement:

Range: 0.01 to 20 standard L/min

Accuracy: ±2% of reading or 0.005 standard L/min, whichever is greater, for air and O2; ±3% of

reading or

0.010 standard L/min, whichever is greater, for N2O and N2

Response: 4 ms to 63% of full scale flow

Overall Dimensions: 127 ×49 ×32 mm (5 ×2 ×1.25 in.)

High Flow-Models 4040/4043/4045

Flow measurement:

Range: Model 4040 and 4045: 0 to 300 standard L/min

Model 4043: 0 to 200 standard L/min

Accuracy: ±2% of reading or 0.05 standard L/min, whichever is greater, for air and O2, ±3% of

reading or 0.10

standard L/min, whichever is greater, for N2 and Air/O2 mixture

Response: 4 ms to 63% of full scale flow

Overall Dimensions: 182 ×63 ×53 mm (7.2 ×2.5 ×2.1 in.)

All Models

Volume Measurement*:

Range: 0.01 to 99.9 liters Accuracy: ±2% of reading

Pressure Measurement:

Range: 50 to 199 kPa absolute

Accuracy: ±1 kPa

Response: <4 ms to 63% of final value for step change

Temperature Measurement:

Range: 0 to 50°C

Accuracy: ±1°C at flows greater than 1 standard L/min **Response:** <75 ms to 63% of final value for step change

Analog Output: 0 to 10 VDC, zero and span adjustable via RS232

DC Power Input: 7. 5 VDC ±1.5 V, 300 mA max

Specifications subject to change without notice -Supplied through RS232 port only.

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