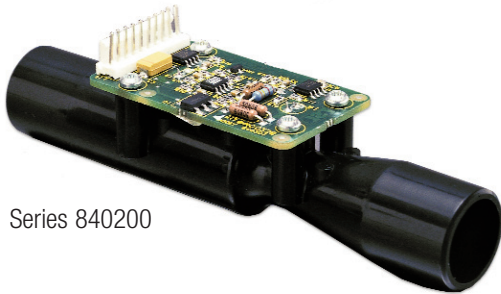




Series 840500



Series 840200

Features and Benefits

- Fully calibrated and ready to install
 - Calibration data stored on-board
 - No additional calibration required
- Mass flow measurements
 - Independent of temperature and pressure
- Fast response
 - Ideal for dynamic flow measurements
 - Improves control performance
- Accuracy as a percent of reading
 - Assures high accuracy over a wide flow range
 - Wide dynamic operating range
- Low pressure drop
 - Eliminates sensor effects on flow rate
 - Reduces pump/blower size and power

OEM Flow Sensors For Embedded Applications

Series 840200 & 840500

TSI, a worldwide leader in air and gas flow measurement technology, designed these affordable high-performance flow sensors to measure air, oxygen, and other gases for embedded applications. A compact size and standard configurations make it easy to design into your products. You save engineering time, reduce costs and get your products to market faster.

Applications

- Patient Ventilators
 - Critical and sub-acute care
 - Pediatric and neonatal
 - Portable and transport
- Anesthesia Systems
 - Fresh gas delivery
 - Ventilator system
- Medical Equipment
 - Nitric oxide delivery
 - Oxygen generation
 - Other gas flow systems



TRUST. SCIENCE. INNOVATION.

Specifications

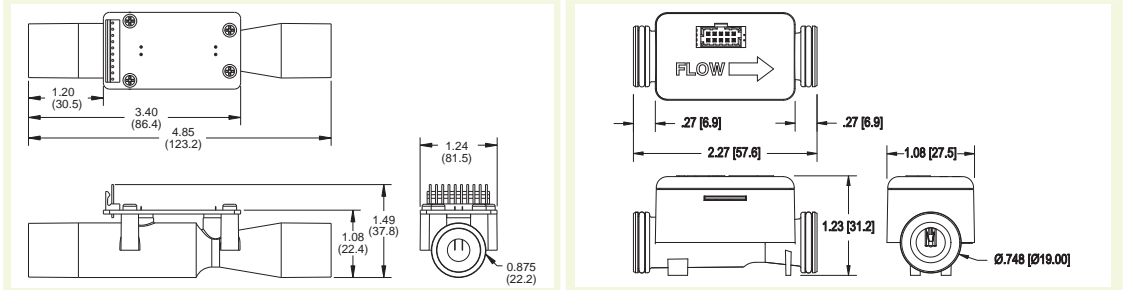
Series 840200 & 840500

OEM Flow Sensors For Embedded Applications



Features	TSI Series 840200	TSI Series 840500
TSI Models (Listed by gas calibrations stored on-board)	Model 840201 Air Model 840202 Oxygen	Model 840521 Air Model 840522 Oxygen Model 840523 Air and Oxygen Model 840533 Air, Oxygen, and Heliox
Flow Range	0 to 300 standard l/min	0 to 300 standard l/min, Air and Oxygen 0 to 80 standard l/min, Heliox 80/20 Mix
Accuracy*	±2.5% of reading ±0.1 l/min @ 21°C	±2.5% of reading ±0.05 l/min @ 21°C
Temperature Range	0 to 65 °C	0 to 50 °C
Pressure Drop	18 cm H ₂ O at 300 l/min	12 cm H ₂ O at 300 l/min
Response Time	5 msec (0 to 63% of full-scale flow)	5 msec (0 to 63% of full-scale flow)
Output Signals Flow	0 to 4 vdc non-linear, 1 Channel	0 to 2.5 vdc non-linear, 2 Channels
Output Signal Temperature	0 to 4.5 vdc non-linear	0 to 2.5 vdc non-linear
Input Voltage	5 vdc ±5%, Regulated	5 vdc ±5%, Regulated, 3.3 vdc eeprom
Power Consumption	0.65 watts at full-scale flow	0.8 watts at full-scale flow
Mating Connector	Amp 1-640456-0	Molex 51110-1060 (Wire) or Molex 87568-1074/87568-1073 (IDC)
Eeprom Interface	SPI Communication	I ² C Communication
Warranty	1 year	1 year

Dimensions in Inches (mm)



*Consult TSI for complete product specifications. Specifications are subject to change without notice.

TSI Incorporated - 500 Cardigan Road, Shoreview, MN 55126-3996 USA
USA Tel: +1 800 874 2811 E-mail: answers@tsi.com Website: www.tsi.com
UK Tel: +44 149 4 459200 E-mail: tsiuk@tsi.com Website: www.tsiinc.co.uk
France Tel: +33 491 11 87 64 E-mail: tsifrance@tsi.com Website: www.tsiinc.fr
Germany Tel: +49 241 523030 E-mail: tsigmbh@tsi.com Website: www.tsiinc.de
India Tel: +91 80 41132470 E-mail: tsi-india@tsi.com
China Tel: +86 10 8251 6588 E-mail: tsibeijing@tsi.com
Singapore Tel: +65 6595 6388 E-mail: tsi-singapore@tsi.com



TRUST. SCIENCE. INNOVATION.

Contact TSI or visit our website www.tsi.com for more detailed specifications.