



Knowledge Beyond Measure.

Volatile Organic Compounds (VOC) Indoor Air Quality Probes

Models 984, 985, 986 & 987



TSI® VOC probes are pre-calibrated, plug-and-play accessory probes for multi-purpose meters including, Q-Trak™ Monitor 7575, VelociCalc® Meter 9565 and Airflow™ Instruments TA465 Meter.

When combined with these meters, long-term data analysis can be performed and reported, which is useful for monitoring or investigating the indoor environment.

Applications

- IAQ investigations
- Industrial hygiene surveys
- Building commissioning
- Track down emissions to their source

Data Collection and Reporting

Expanded data logging capacity and the inclusion of TrakPro™ Data Analysis Software provides the capabilities to work more effectively and efficiently. The Q-Trak™ monitor can store up to 38.9 days of data collected at one-minute log intervals. The stored data can be recalled, reviewed on screen, and downloaded for easy reporting.

Features and Benefits

- Pre-calibrated plug-and-play accessory probes for TSI® Q-Trak™ Monitor 7575, VelociCalc® Meter 9565 and Airflow™ Instruments TA465 Meter
- Compact design with ergonomic handle
- Four versions available with multiple measurement capabilities
 - Model 984 - Low concentration (ppb) VOC and temperature
 - Model 985 - High concentration (ppm) VOC and temperature
 - Model 986 - Low concentration (ppb) VOC, temperature, CO₂ and humidity
 - Model 987 - High concentration (ppm) VOC, temperature, CO₂ and humidity
- Two-year factory warranty
- Send only the probe back for factory calibration



Specifications

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Field Service

TSI® VOC probes are competitively priced to others in the marketplace but feature a lower cost of ownership due its compact design and construction, which is geared for field service capability.

- Field calibration
 - Field calibration
 - Relative humidity
 - Volatile organic compounds (VOC)
 - Carbon dioxide (CO₂)
- Replaceable sensors
- Sensor maintenance
 - Lamp cleaning
 - Lamp replacement



Instrumentation

The Q-Trak™ Monitor 7575, VelociCalc® Meter 9565 and Airflow™ Instruments TA465 Meter feature a menu-driven user interface for easy operation. VOC probes are also compatible with Airflow™ Instruments TA460 series and TSI's discontinued 7565 and 9555 series, if instrument firmware is at revision 2.10 or higher.

On-screen prompts and step-by-step instructions guide the user through operation and field calibration. These instruments also feature an ergonomic, over molded case design and a keypad lockout to prevent tampering during unattended use.

- Display up to five measurements simultaneously
- Log multiple parameters to investigate trends
- Calculate dew point, wet bulb and percent outside air (VOC models 986 and 987)
- Store up to 38.9 days of data collected at one-minute log intervals when used with the Q-Trak™ 7575 Meter
- User selectable logging intervals and start/stop times
- Internal barometric pressure sensor
- Download data to TrakPro™ Data Analysis Software
 - Report generation
 - Graph creation
 - Instrument programming

Model 984 Low Concentration (ppb) VOC and Temperature

Range	10 to 20,000 ppb, -10 to 60°C (14 to 140°F)
Accuracy	±0.5°C (±1.0°F) ¹
Resolution	10 ppb ⁴ , 0.1°C (0.1°F)

Model 985 High Concentration (ppm) VOC and Temperature

Range	1 to 2,000 ppm, -10 to 60°C (14 to 140°F)
Accuracy	±1.0°C (±0.5°F) ¹
Resolution	1 ppm ⁴ , 0.1°C (0.1°F)

Model 986 Low Concentration (ppb) VOC, Temperature, CO₂, and Humidity

Range	10 to 20,000 ppb VOC, 0 to 5,000 ppm CO ₂ -10 to 60°C (14 to 140°F), 5 to 95% RH
Accuracy	±3% of reading or 50 ppm CO ₂ ² , whichever is greater ±0.5°C (±1.0°F) ¹ , ±3% RH ³
Resolution	1 ppm ⁴ VOC, 0.1 ppm CO ₂ , 0.1°C (0.1°F), 0.1% RH

Probe Dimensions

Length (excluding handle)	17.8 cm (7.0 in.)
Base Diameter	1.9 cm (0.75 in.)
Tip Diameter	2.54 cm (1.0 in.)

Note: The 984 and 986 probes are designed to measure ppb concentrations of VOCs. The 10 to 20,000 ppb range corresponds to 0.01 to 20 ppm.

¹ Accuracy with instrument case at 25°C (77°F), add uncertainty of 0.05°C/°C (0.05°F/°F) for change in instrument temperature.

² Accuracy with probe at 25°C (77°F). Add uncertainty of ±0.36%/°C (±0.2%/°F) away from calibrated temperature.

³ Accuracy with probe at 25°C (77°F). Add uncertainty of 0.2% RH/°C (0.1% RH/°F) for change in probe temperature. Includes 1% hysteresis.

⁴ When response factor is set to 1.00.

Specifications are subject to change without notice.

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