

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.

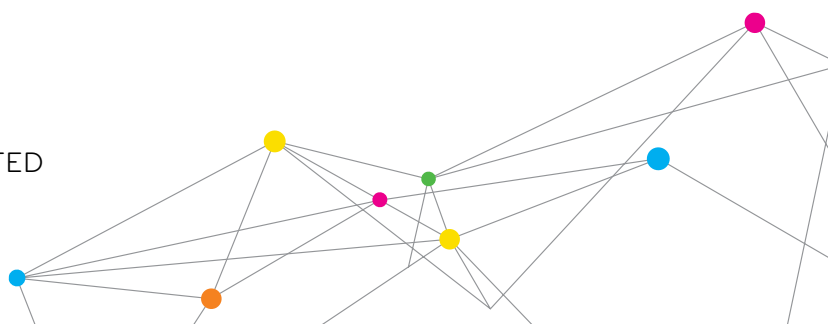
TrakPro software helps you to generate professional graphs for your reports.

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



UNDERSTANDING, ACCELERATED



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
 - Temperature
 - 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	10 ppb ⁴ VOC, 0.1 ppm CO ₂ ² , 0.1°C (0.1°F), 0.1% RH

Model 987 High Concentration (ppm) VOC, Temperature, CO₂, and Humidity

Range	1 to 2,000 ppm 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 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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