TSI Ventilation and IAQ Products

New Products

March 2011

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Agenda

- New products
  - 9565 VelociCalc and 7575 QTRAK Overview
    - Bluetooth Communications
    - Airflow Probe 800187
    - Language Additions
    - Software updates
    - Resources

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Agenda

- New products
  - Volatile Organic Compounds (VOC) Probes
    - What are VOC's?
    - Applications and Customers
    - Models and Technology
    - Features
    - Setup
    - Resources
    - Availability

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New Products: 9565 VelociCalc and 7575 QTRAK

- Replacing 9555 VelociCalc and 7565 Q-Trak
  - 9555/7565 Asian Language project started last year
  - Original plan was to keep existing model numbers
- Required new pcb and microprocessor
- Create new models
  - Provides us with the opportunity to launch a new product
  - Helps service differentiate between old and new models

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9565 VelociCalc and 7575 QTRAK Overview

- The VelociCalc 9565 series is a direct replacement for the 9555
- The QTRAK 7575 is a direct replacement for the 7565
- Same features and functionality as old models
  - Use existing plug-in probes
  - Instrument case look and feel
  - Carrying case and accessories
  - Supports 8934 wireless printer
- No change in pricing

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9565 VelociCalc
7575 Q-Trak Models

Old Models	New Models	New Service Models
9555	9565	CL-9565-P
9555-A	9565-A	RP-9565-P
9555-P	9565-P	CL-9565-X
9555-X	9565-X	RP-9565-X
7565	7575	CL-7575-X
7565-X	7575-X	RP-7575-X

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9565 VelociCalc and 7575 QTRAK Overview

- Additional capabilities
  - Bluetooth bi-directional communications
    - Download stored data to a PC
    - Remote polling from a PC
    - Program Test ID names from a PC
  - Supports additional probes
    - Volatile Organic Compounds (VOC) probes
    - **9565-P** can use Airflow probe (straight pitot probe) Model 800187

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9565 VelociCalc and 7575 QTRAK Overview

- Additional capabilities
  - Added four Asian languages
    - Traditional Chinese
    - Simplified Chinese
    - Japanese
    - Korean
  - Added dots to soft keys
  - Updated LogDat2 and TRAKPRO software
  - Updated instruction manual
  - Updated specification data sheet

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Bluetooth Bi-Directional Communications

- Communication via Hyperterminal or other terminal emulation software
  - Not supplied by TSI
- Download stored data
- Remote Polling
  - Data analysis
  - Trending
- Range: 100 ft. (30 m)

```
--------------------------------
MODEL: 9565-P
SERIAL: 9565P1105003
REV: 3.01.0
PROBE: 784
PROBE#: P07150016
TEST ID:              TSI 2468
Sample 1 Date:        23/03/11
Sample 1 Time:        13:27:52
--------------------------------

      Velocity
Avg                   164 ft/min
Min                     3 ft/min
Max                   321 ft/min
# Samples       3



     Samples
23/03/11
13:27:52       169 ft/min
13:27:58       321 ft/min
13:28:18         3 ft/min


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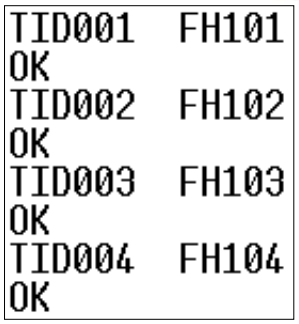
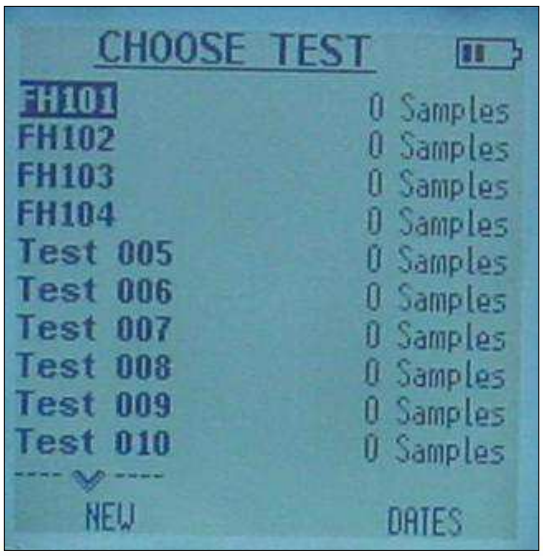
Bluetooth Bi-Directional Communications

- Application: Programming Test ID's
  - Enhances productivity
    - Faster than programming thru meter keypad
  - Useful for Laboratories with dozens of fume hoods
    - Each fume hood has a unique identification
    - Program each FH identification into meter
    - Test fume hoods
    - Generate reports





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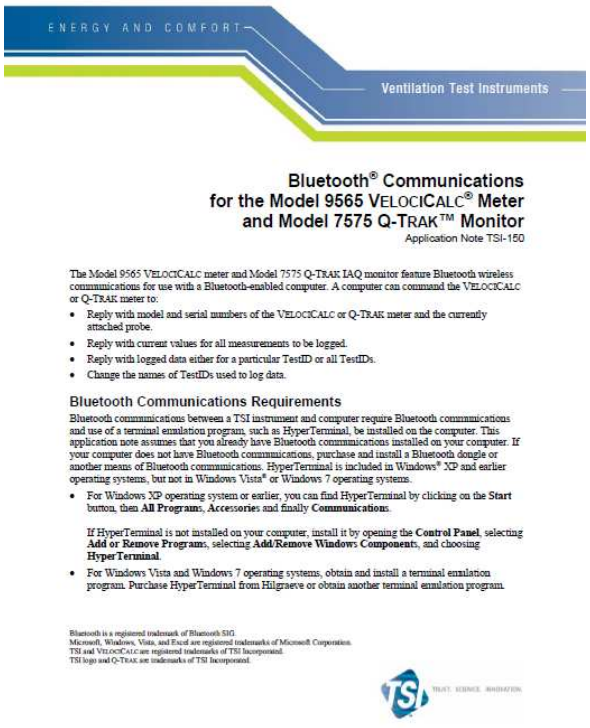
Bluetooth Bi-Directional Communications



ENERGY AND COMFORT

Ventilation Test Instruments

Bluetooth® Communications for the Model 9565 VELOCICALC® Meter and Model 7575 Q-TRAK™ Monitor

Application Note TSI-150

The Model 9565 VELOCICALC meter and Model 7575 Q-TRAK IAQ monitor feature Bluetooth wireless communications for use with a Bluetooth-enabled computer. A computer can command the VELOCICALC or Q-TRAK meter to:

- Reply with model and serial numbers of the VELOCICALC or Q-TRAK meter and the currently attached probe.
- Reply with current values for all measurements to be logged.
- Reply with logged data either for a particular TestID or all TestIDs.
- Change the names of TestIDs used to log data.

Bluetooth Communications Requirements

Bluetooth communications between a TSI instrument and computer require Bluetooth communications and use of a terminal emulation program, such as HyperTerminal, be installed on the computer. This application note assumes that you already have Bluetooth communications installed on your computer. If your computer does not have Bluetooth communications, purchase and install a Bluetooth dongle or another means of Bluetooth communications. HyperTerminal is included in Windows® XP and earlier operating systems, but not in Windows Vista® or Windows 7 operating systems.

- For Windows XP operating system or earlier, you can find HyperTerminal by clicking on the **Start** button, then **All Programs**, **Accessories** and finally **Communications**.

  If HyperTerminal is not installed on your computer, install it by opening the **Control Panel**, selecting **Add or Remove Programs**, selecting **Add/Remove Windows Components**, and choosing **HyperTerminal**.
- For Windows Vista and Windows 7 operating systems, obtain and install a terminal emulation program. Purchase HyperTerminal from Hilgraeve or obtain another terminal emulation program.

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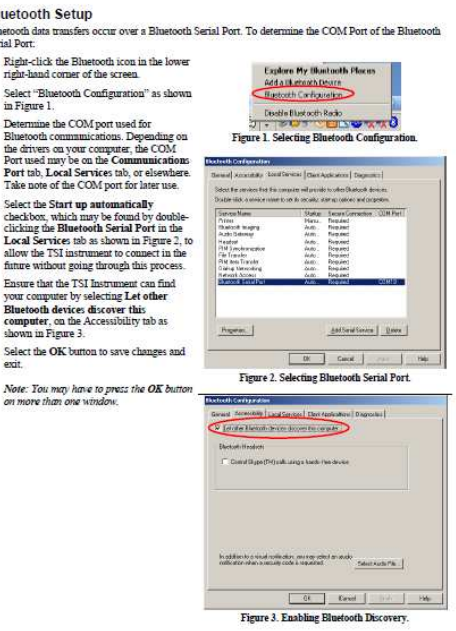

Bluetooth Setup

Bluetooth data transfers occur over a Bluetooth Serial Port. To determine the COM Port of the Bluetooth Serial Port:

1. Right-click the Bluetooth icon in the lower right-hand corner of the screen.
2. Select "Bluetooth Configuration" as shown in Figure 1.
3. Determine the COM port used for Bluetooth communications. Depending on the drivers on your computer, the COM Port used may be on the **Communications Port** tab, **Local Services** tab, or elsewhere. Take note of the COM port for later use.
4. Select the **Start up automatically** checkbox, which may be found by double-clicking the **Bluetooth Serial Port** in the **Local Services** tab as shown in Figure 2, to allow the TSI instrument to connect in the future without going through this process.
5. Ensure that the TSI Instrument can find your computer by selecting **Let other Bluetooth devices discover this computer**, on the Accessibility tab as shown in Figure 3.
6. Select the **OK** button to save changes and exit.

Note: You may have to press the OK button on more than one window.

Figure 1. Selecting Bluetooth Configuration.

Figure 2. Selecting Bluetooth Serial Port.

Figure 3. Enabling Bluetooth Discovery.

Application Note TSI-150

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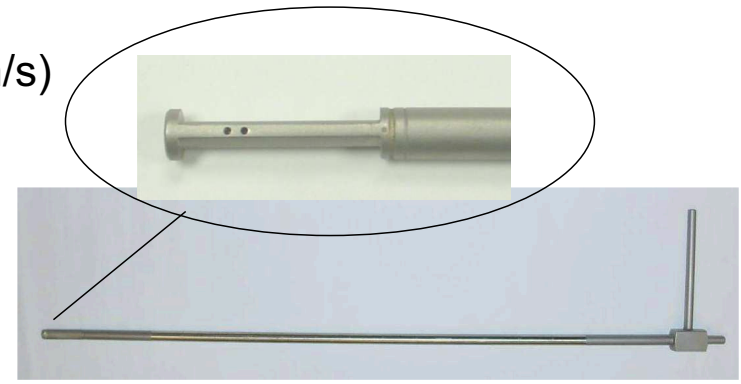
Airflow Probe

- Straight pitot probe
  - Duct traversing
- Applicable with the 9565-P
  - Range: 250 to 15,500 ft/min (1,27 to 78,7 m/s)
  - Accuracy: ± 1,5% at 2000 ft/min (10,16 m/s)
  - Resolution: 1 ft/min (0,01 m/s)



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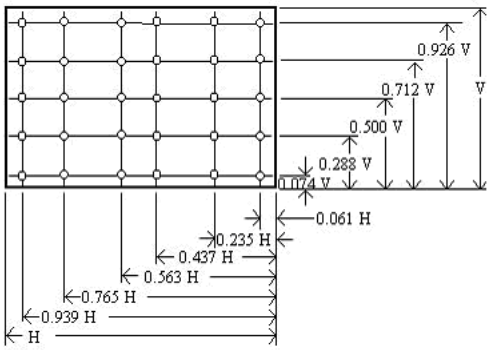
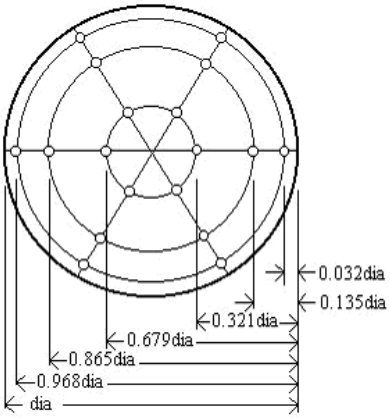
Airflow probe

- Small diameter ductwork
  - Standard pitot probes may not be able to be inserted due to 90º angle
- High temperature airstreams
  - Temperatures up to 800ºC





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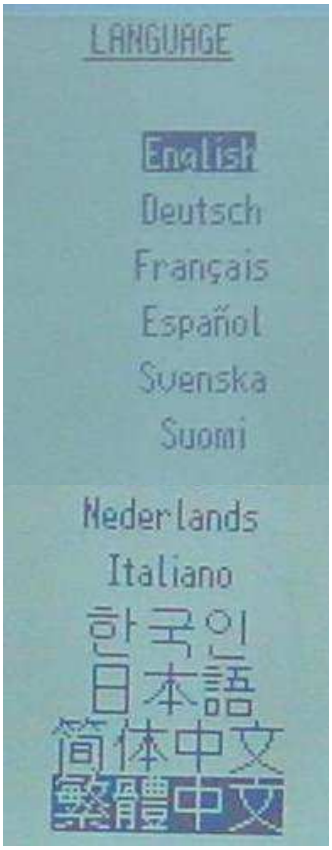
Languages

- Multi language capability built into instruments
  - 12 total
- Unique to TSI
- Why important
  - Multi-national companies looking to standardize on equipment
  - Penetrate new regions
  - Builds on TSI's reputation of being a global company



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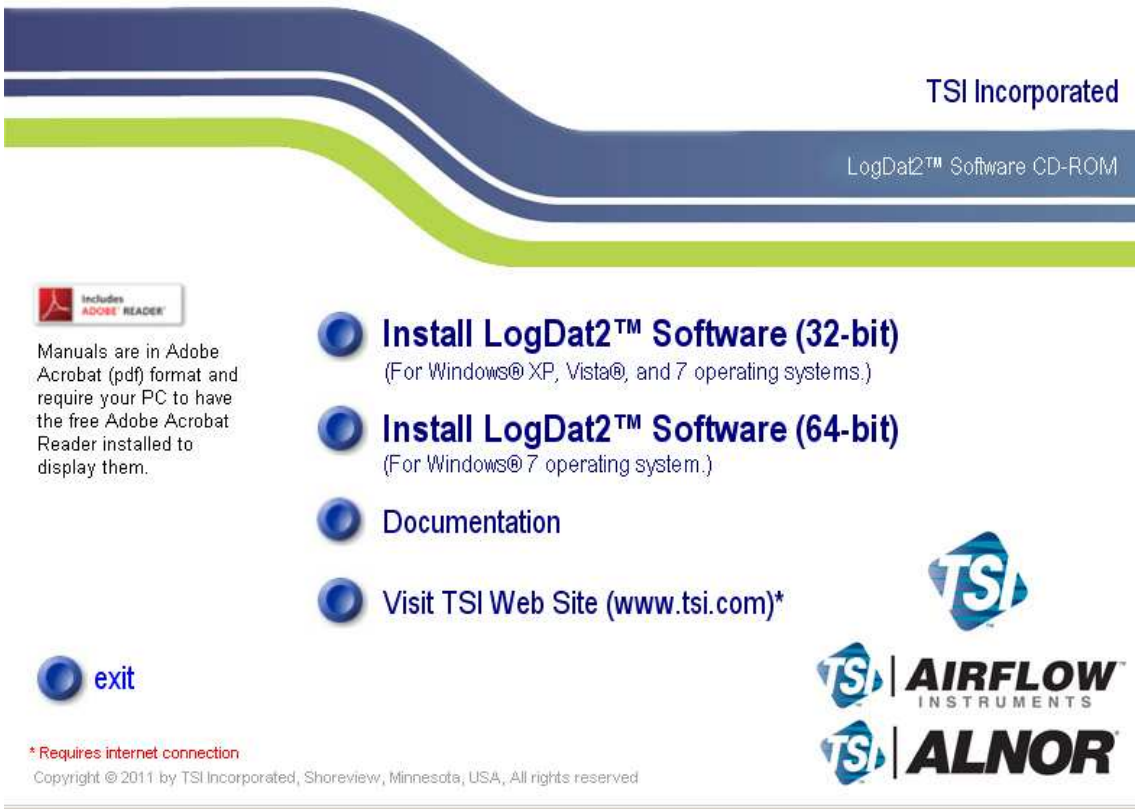
Software Update: LogDat2 Revision 1.4.1



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Software Update: TrakPro Revision 4.5.1

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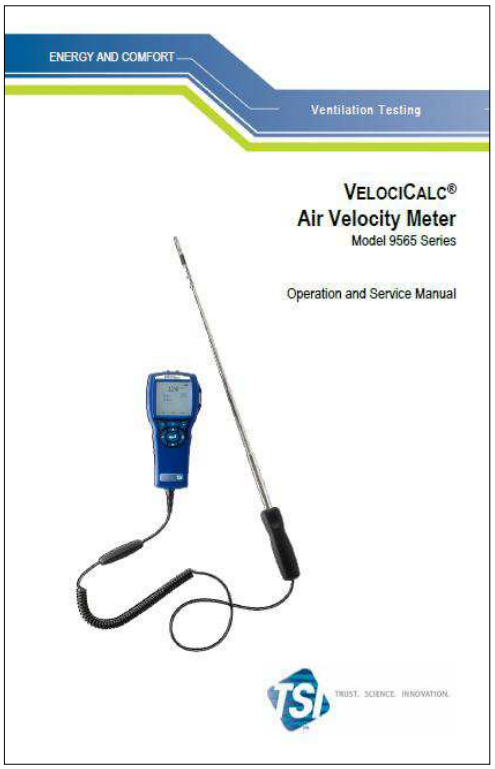
Resources: User Manual

- More information!!!
  - Increased from 22 to 47 pages
- Alternate language manuals to be released in early April
  - Website
  - Add to multi language CD



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Resources: User Manual

Connecting the Static Pressure Probe

The Static Pressure probe included with the 9565-P is connected to the + port on the 9565-P using the included tubing. The Static Pressure probe is used to measure the duct static pressure and features a magnet which holds the probe to the ductwork.

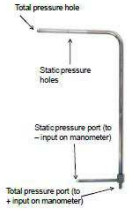
Connecting an Optional Pitot Probe or Airflow (straight pitot) Probe

When connected to a pitot probe, air velocity or air volume can be measured. A pitot probe can be connected to the "+" and "-" pressure ports on the Model 9565-P using two pieces of tubing of equal length. The total pressure port of the pitot probe connects to the "+" port on the meter, and the static pressure port of the pitot probe connects to the "-" port on the meter.

For information on how to perform a duct traverse, refer to Application Note TSI-106.

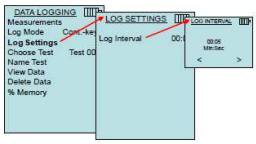
NOTE: The pitot velocity needs a valid temperature to perform the standard or actual velocity correction. This is accomplished in the "Actual/Std Setup" menu. If no probe capable of measuring temperature (plug in probe or thermocouple) is connected, the "Temp Source" must be set to "Entered". The duct air temperature must then be manually inputted by the user using the "Entered Temp" setting. If the "Temp Source" is set to Probe or Thermocouple 1 or 2, and no probe is connected, dashes (------) will appear on the display.

For more information on entering the temperature manually, refer to the Actual/Standard Setup section of this manual.



⚠ Do not use the instrument or probes near hazardous voltage sources since serious injury could result.

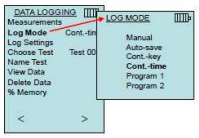
When set to **Cont. key**, the log interval can be adjusted.



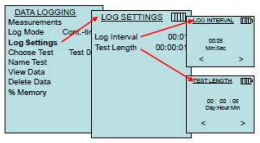
NOTE: Pressing the ▲▼ keys simultaneously will lock the keypad to prevent unauthorized adjustments to the instruments during unattended logging. A "Lock" symbol will appear on the display. To unlock the keypad, press the ▲▼ keys simultaneously. The "Lock" symbol will disappear.

Cont-time Logging

In **Cont-time** mode, the user starts taking readings by pressing the ↵ key. The instrument will continue taking samples until the time as set in "Test Length" has elapsed.



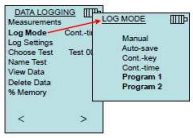
When set to **Cont.-time**, the log interval and test length can be adjusted.



NOTE: Pressing the ▲▼ keys simultaneously will lock the keypad to prevent unauthorized adjustments to the instruments during unattended logging. A "Lock" symbol will appear on the display. To unlock the keypad, press the ▲▼ keys simultaneously. The "Lock" symbol will disappear.

Program 1 and Program 2

Program 1 and **Program 2** are customized data logging setup programs. Setting them up is performed using TSI's TRAKPRO™ Data Analysis software.



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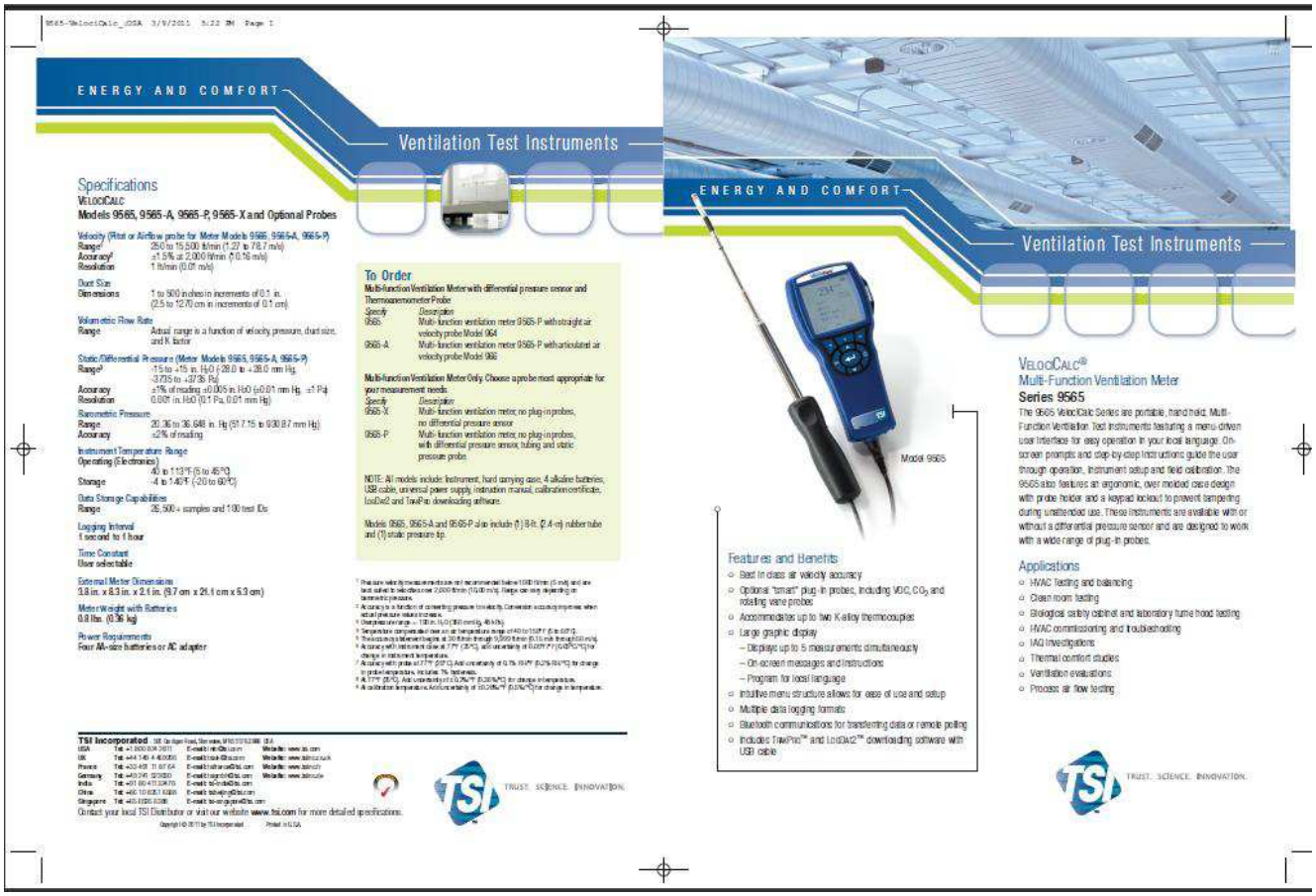
Resources: 9565 Spec Sheet



ENERGY AND COMFORT

Ventilation Test Instruments

Specifications

VELOCICALC

Models 9565, 9565-A, 9565-P, 9565-X and Optional Probes

Velocity (Pitot or Airflow probe for Meter Models 9565, 9565-A, 9565-P)

Range[1]	25.0 to 15,500 ft/min (1.27 to 78.7 m/s)
Accuracy[2]	±1.5% at 2,000 ft/min (10.16 m/s)
Resolution	1 ft/min (0.01 m/s)

Duct Size

Dimensions	1 to 500 in.(cm) in increments of 0.1 in. (2.5 to 1270 cm in increments of 0.1 cm)

Volumetric Flow Rate

Range	Actual range is a function of velocity pressure, duct size, and K factor

Static/Differential Pressure (Meter Models 9565, 9565-A, 9565-P)

Range[3]	-15 to +15 in. H_2O (-28.0 to +28.0 mm Hg, -3735 to +3735 Pa)
Accuracy	±1% of reading ±0.005 in. H_2O (±0.01 mm Hg, ±1 Pa)
Resolution	0.001 in H_2O (0.1 Pa, 0.01 mm Hg)

Barometric Pressure

Range	20.36 to 36.648 in. Hg (517.15 to 930.87 mm Hg)
Accuracy	±2% of reading

Instrument Temperature Range

Operating (Electronics)	40 to 113°F (5 to 45°C)
Storage	-4 to 140°F (-20 to 60°C)

Data Storage Capabilities

Range	26,500+ samples and 100 test IDs

Logging Interval
1 second to 1 hour

Time Constant
User selectable

External Meter Dimensions
3.8 in. x 8.3 in. x 2.1 in. (9.7 cm x 21.1 cm x 5.3 cm)

Meter Weight with Batteries
0.8 lbs. (0.36 kg)

Power Requirements
Four AA-size batteries or AC adapter

To Order

Multi-function Ventilation Meter with differential pressure sensor and Thermoanemometer Probe

Specify	Description
9565	Multi-function ventilation meter 9565-P with straight air velocity probe Model 964
9565-A	Multi-function ventilation meter 9565-P with articulated air velocity probe Model 966

Multi-function Ventilation Meter Only. Choose a probe most appropriate for your measurement needs

Specify	Description
9565-X	Multi-function ventilation meter, no plug-in probes, no differential pressure sensor
9565-P	Multi-function ventilation meter, no plug-in probes, with differential pressure sensor, tubing and static pressure probe

NOTE: All models include: Instrument, hard carrying case, 4 alkaline batteries, USB cable, universal power supply, instruction manual, calibration certificate, LogDat2 and TrakPro downloading software.

Models 9565, 9565-A and 9565-P also include (1) 9-ft. (2.4-m) rubber tube and (1) static pressure tip.

[1] Pitot-tube velocity measurements are not recommended below 1000 ft/min (5 m/s) and are best suited for velocities over 2,000 ft/min (10.00 m/s). Range can vary depending on barometric pressure.
[2] Accuracy is a function of correcting pressure for velocity. Conversion accuracy improves when actual pressure values increase.
[3] Overpressure range = 100 in. H_2O (250 mm Hg, 49 kPa).
[4] Temperature compensated over an air temperature range of 40 to 104°F (5 to 40°C).
[5] The accuracy is between the points at 50 ft/min through 5,000 ft/min (0.25 m/s through 25.00 m/s).
[6] Accuracy with instrument zero at 77°F (25°C). Add uncertainty of (0.03%/°F) (0.05%/°C) for change in instrument temperature.
[7] Accuracy with probe at 77°F (25°C). Add uncertainty of 0.1% /°F (0.2% /°C) for change in probe temperature. Includes 7% hysteresis.
[8] At 77°F (25°C). Add uncertainty of ± (0.2%/°F (0.36%/°C) for change in temperature.
[9] At calibration temperature. Add uncertainty of ±(0.04%/°F (0.07%/°C) for change in temperature.

TSI Incorporated – Visit our website www.tsi.com for more detailed specifications.

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ENERGY AND COMFORT

Ventilation Test Instruments

Model 9565

Features and Benefits

- Best in class air velocity accuracy
- Optional "smart" plug-in probes, including VOC, CO_2 and rotating vane probes
- Accommodates up to two K-alloy thermocouples
- Large graphic display
  - Displays up to 5 measurements simultaneously
  - On-screen messages and instructions
  - Program for local language
- Intuitive menu structure allows for ease of use and setup
- Multiple data logging formats
- Bluetooth communications for transferring data or remote polling
- Includes TrakPro™ and LogDat2™ downloading software with USB cable

VELOCICALC®
Multi-Function Ventilation Meter
Series 9565

The 9565 VelociCalc Series are portable, hand held, Multi-Function Ventilation Test Instruments featuring a menu driven user interface for easy operation in your local language. On-screen prompts and step-by-step instructions guide the user through operation, instrument setup and field calibration. The 9565 also features an ergonomic, over molded case design with probe holder and a keypad lockout to prevent tampering during unattended use. These instruments are available with or without a differential pressure sensor and are designed to work with a wide range of plug-in probes.

Applications

- HVAC Testing and balancing
- Clean room testing
- Biologics safety cabinet and laboratory fume hood testing
- HVAC commissioning and troubleshooting
- IAQ investigations
- Thermal comfort studies
- Ventilation evaluations
- Process air flow testing

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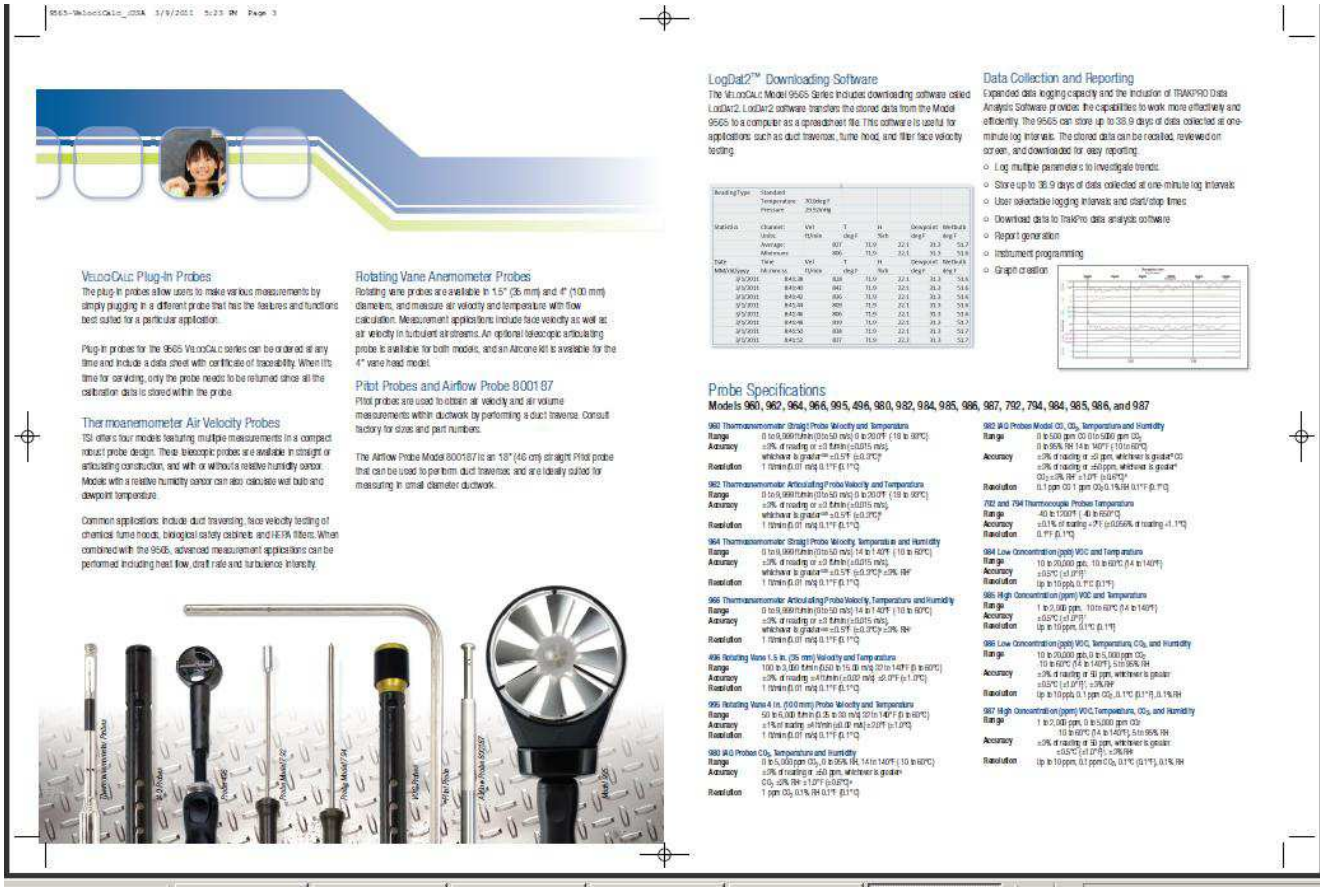
Resources: 9565 Spec Sheet



9565-VelocCalc_DSA 5/9/2011 5:23 PM Page 3

VelocCalc Plug-In Probes

The plug-in probes allow users to make various measurements by simply plugging in a different probe that has the features and functions best suited for a particular application.

Plug-in probes for the 9565 VelocCalc series can be ordered at any time and include a data sheet with certificate of traceability. When it's time for servicing, only the probe needs to be returned since all the calibration data is stored within the probe.

Thermoanemometer Air Velocity Probes

TSI offers four models featuring multiple measurements in a compact, robust probe design. These telescopic probes are available in straight or articulating construction, and with or without a relative humidity sensor. Models with a relative humidity sensor can also calculate wet bulb and dewpoint temperature.

Common applications include duct traversing, face velocity testing of chemical fume hoods, biological safety cabinets and HEPA filters. When combined with the 9565, advanced measurement applications can be performed including heat flow, draft rate and turbulence intensity.

Rotating Vane Anemometer Probes

Rotating vane probes are available in 1.5" (35 mm) and 4" (100 mm) diameters, and measure air velocity and temperature with flow calculation. Measurement applications include face velocity as well as air velocity in turbulent air streams. An optional telescopic articulating probe is available for both models, and an Alnicone kit is available for the 4" vane head model.

Pitot Probes and Airflow Probe 8001187

Pitot probes are used to obtain air velocity and air volume measurements within ductwork by performing a duct traverse. Consult factory for sizes and part numbers.

The Airflow Probe Model 8001187 is an 18" (46 cm) straight Pitot probe that can be used to perform duct traverses and are ideally suited for measuring in small diameter ductwork.

LogDat2™ Downloading Software

The VelocCalc Model 9565 Series includes downloading software called LogDat2. LogDat2 software transfers the stored data from the Model 9565 to a computer as a spreadsheet file. This software is useful for applications such as duct traverses, fume hood, and filter face velocity testing.

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 9565 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.

- Log multiple parameters to investigate trends
- Store up to 38.9 days of data collected at one-minute log intervals
- User selectable logging intervals and start/stop times
- Download data to TrakPro data analysis software
- Report generation
- Instrument programming
- Graph creation

Probe Specifications

Models 960, 962, 964, 966, 995, 496, 980, 982, 984, 985, 986, 987, 792, 794, 984, 985, 986, and 987

960 Thermoanemometer Straight Probe Velocity and Temperature
Range: 0 to 9,999 ft/min (0 to 50 m/s); 0 to 200°F (-18 to 93°C)
Accuracy: ±3% of reading or ±3 ft/min (±0.015 m/s), whichever is greater[1] or ±0.5°F (±0.3°C)[2]
Resolution: 1 ft/min (0.01 m/s) 0.1°F (0.1°C)

962 Thermoanemometer Articulating Probe Velocity and Temperature
Range: 0 to 9,999 ft/min (0 to 50 m/s); 0 to 200°F (-18 to 93°C)
Accuracy: ±3% of reading or ±3 ft/min (±0.015 m/s), whichever is greater[1] or ±0.5°F (±0.3°C)[2]
Resolution: 1 ft/min (0.01 m/s) 0.1°F (0.1°C)

964 Thermoanemometer Straight Probe Velocity, Temperature and Humidity
Range: 0 to 9,999 ft/min (0 to 50 m/s); 14 to 140°F (-10 to 60°C)
Accuracy: ±3% of reading or ±3 ft/min (±0.015 m/s), whichever is greater[1] or ±0.5°F (±0.3°C)[2] ±3% RH[3]
Resolution: 1 ft/min (0.01 m/s) 0.1°F (0.1°C)

966 Thermoanemometer Articulating Probe Velocity, Temperature and Humidity
Range: 0 to 9,999 ft/min (0 to 50 m/s); 14 to 140°F (-10 to 60°C)
Accuracy: ±3% of reading or ±3 ft/min (±0.015 m/s), whichever is greater[1] or ±0.5°F (±0.3°C)[2] ±3% RH[3]
Resolution: 1 ft/min (0.01 m/s) 0.1°F (0.1°C)

496 Rotating Vane 1.5 in. (35 mm) Velocity and Temperature
Range: 100 to 2,000 ft/min (0.50 to 15.00 m/s); 32 to 140°F (0 to 60°C)
Accuracy: ±3% of reading ±47 ft/min (±0.20 m/s); ±0.9°F (±1.0°C)
Resolution: 1 ft/min (0.01 m/s) 0.1°F (0.1°C)

995 Rotating Vane 4 in. (100 mm) Probe Velocity and Temperature
Range: 50 to 6,000 ft/min (0.25 to 30 m/s) 32 to 140°F (0 to 60°C)
Accuracy: ±1% of reading ±4 ft/min (±0.02 m/s) ±2.0°F (±1.0°C)
Resolution: 1 ft/min (0.01 m/s) 0.1°F (0.1°C)

980 IAQ Probe CO_2, Temperature and Humidity
Range: 0 to 5,000 ppm CO_2; 0 to 95% RH, 14 to 140°F (-10 to 60°C)
Accuracy: ±3% of reading or ±50 ppm, whichever is greater CO_2 ±3% RH ±1.0°F (±0.6°C)[4]
Resolution: 1 ppm CO_2 0.1% RH 0.1°F (0.1°C)

982 IAQ Probe Model CO, CO_2, Temperature and Humidity
Range: 0 to 500 ppm CO 0 to 5000 ppm CO_2; 0 to 95% RH 14 to 140°F (-10 to 60°C)
Accuracy: ±3% of reading or ±3 ppm, whichever is greater[4] CO ±3% of reading or ±50 ppm, whichever is greater[4] CO_2 ±3% RH ±1.0°F (±0.6°C)[4]
Resolution: 0.1 ppm CO 1 ppm CO_2 0.1% RH 0.1°F (0.1°C)

792 and 794 Thermocouple Probe Temperature
Range: -40 to 1200°F (-40 to 650°C)
Accuracy: ±0.1% of reading +.2°F (±0.056% of reading +1.1°C)
Resolution: 0.1°F (0.1°C)

984 Low Concentration (ppb) VOC and Temperature
Range: 10 to 20,000 ppb, 10 to 60°C (14 to 140°F)
Accuracy: ±3.0°C (±5.0°F)
Resolution: Up to 10 ppb, 0.1°C (0.1°F)

985 High Concentration (ppm) VOC and Temperature
Range: 1 to 2,000 ppm, 10 to 60°C (14 to 140°F)
Accuracy: ±3.0°C (±5.0°F)
Resolution: Up to 10 ppm, 0.1°C (0.1°F)

986 Low Concentration (ppb) VOC, Temperature, CO_2, and Humidity
Range: 10 to 20,000 ppb, 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, whichever is greater ±3.0°C (±5.0°F), ±3% RH
Resolution: Up to 10 ppb, 0.1 ppm CO_2, 0.1°C (0.1°F), 0.1% RH

987 High Concentration (ppm) VOC, Temperature, CO_2, and Humidity
Range: 1 to 2,000 ppm, 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, whichever is greater ±3.0°C (±5.0°F), ±3% RH
Resolution: Up to 10 ppm, 0.1 ppm CO_2, 0.1°C (0.1°F), 0.1% RH

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Resources: Old versus New

ENERGY AND COMFORT

9565 Ventilation Products

VelociCalc Meter Comparison: 9565 Versus 9555 Series

VelociCalc 9565 Series Overview

- The VelociCalc 9565 series is a direct replacement for the 9555 series
- Same features and functionality as the 9555
  - Use existing plug-in probes
  - Instrument case look and feel
  - Carrying case and accessories
- 9565 includes additional capabilities
- No change in pricing

Additional Capabilities of the 9565 Series

- Bluetooth bi-directional communications
  - Download stored data to a PC
  - Remote polling from a PC
  - Program Test ID names from a PC
  - Supports 8934 wireless printer
- Supports additional probes
  - Volatile Organic Compounds (VOC) probes
  - Aiflow probe model 800187 (straight pitot probe)
- Added four Asian languages
  - Traditional Chinese
  - Simplified Chinese
  - Japanese
  - Korean
- Added dots to soft keys
- Updated instruction manual
- Updated specification data sheet

ENERGY AND COMFORT

7565 QTRAK IAQ Monitor

QTRAK IAQ Monitor Comparison: 7575 Versus 7565

QTRAK 7575 Overview

- The QTRAK 7575 series is a direct replacement for the 7565
- Same features and functionality as the 7565
  - Use existing plug-in probes
  - Instrument case look and feel
  - Carrying case and accessories
- 7575 includes additional capabilities
- No change in pricing

Additional Capabilities of the 7575

- Bluetooth bi-directional communications
  - Download stored data to a PC
  - Remote polling from a PC
  - Program Test ID names from a PC
  - Supports 8934 wireless printer
- Supports additional probes
  - Volatile Organic Compounds (VOC) probes
- Added four Asian languages
  - Traditional Chinese
  - Simplified Chinese
  - Japanese
  - Korean
- Added dots to soft keys
- Updated instruction manual
- Updated specification data sheet

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