

## °C SPAR

## Sensor Pole Array Instrument

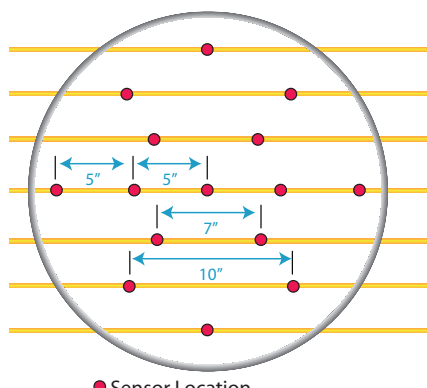
## applications

- Airflow Impedance Testing
- Chemical Fume Hoods - Sash Flow Measurement
- Cleanroom & Laboratory Ventilation Testing
- CFM Measurement for Data Center Perforated Floor Tiles
- Computational Fluid Dynamics Modeling
- Ducts, Barrier Spaces and Containment Enclosures
- Electronics Cooling & Design Validation
- Engine Component Cooling
- Face Velocity Profiling
- HVAC System Commissioning
- Laminar Flow Measurement in Biosafety Cabinets
- Thermal Validation for IT Racks and Servers

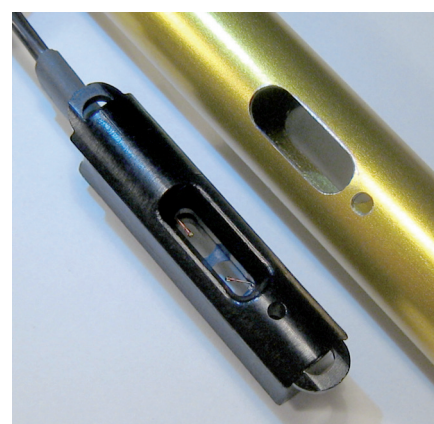
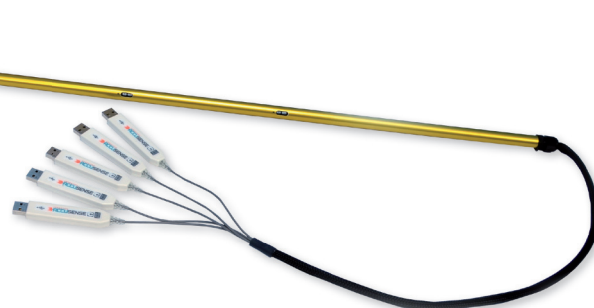
## description

For precision and repeatability, linear measurement of air velocity and temperature, the Cambridge AccuSense™ °C SPAR (Sensor Pole Array) is the premier multipoint measurement instrument for customer-defined applications. The °C SPAR is built to user specifications including tube length, sensor quantity, spacing, and calibration ranges. By using a USB output, the °C SPAR is designed for use with the AccuTrac™ Plus Software toolset, enabling real-time analytics, data logging and reporting for Windows® OS users.

The SPAR housing can be built at lengths ranging from 6" to 42" [15 to 105cm], according to your requirements. Up to eight internal laboratory-grade sensors can be installed for measurement of flow rates ranging from 30-4000 fpm [0.15-20 m/s].



This product was designed for data collection with fixed point, miniature sensors for minimum flow impedance in linear or planar measurement applications. DegreeC offers custom mounting fixtures to enable your °C SPAR unit(s) to collect data in the unique test applications you require.

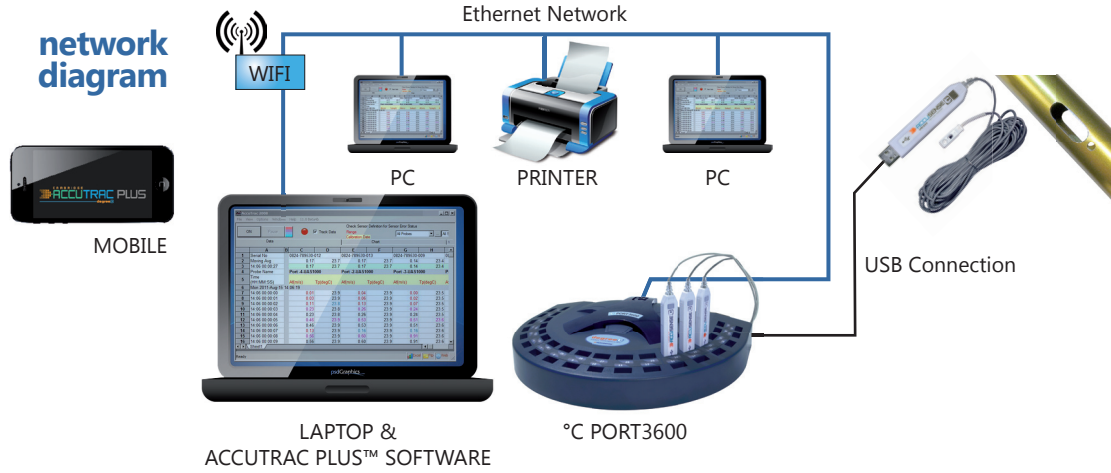


°C SPAR airflow sensors

## features

- Best-in-class, miniature sensors designed for measurement with minimal disruption to flow profile.
- User-defined housing length and sensor quantity, measurement range and spacing
- Compatible with Degree Controls' Accusense series of USB sensors, for air velocity, temperature, thermocouple and humidity testing.
- USB Output enables real-time data logging, analytics and reporting for Windows OS® users on the PC.
- Compatible with °C Port3600 Multipoint sensing instrument system for remote monitoring via web application on the PC or mobile.
- Custom text fixtures with multiple sensor pole arrays are available for complex measurement scenarios.

# Turn your PC into a Multipoint Data Acquisition System with the °C Port3600 and °C SPAR Instruments



## specifications

Operating Temperature:	0°C to 70°C
Storage Temperature:	-40°C to 85°C
Relative humidity (non-condensing)	5-95%
Warm up time after power up	<15 seconds for all sensors
Supply Voltage	USB-Based input, use PC or °C Port3600 Instrument to supply power
Supported Software	AccuTrac™ Plus

## pole array configuration

Housing Length	3" to 42"
Sensor Quantity	1 - 8
Calibrated Flow Range	30-4000 fpm [0.15-20 m/s]
Minimum Sensor Spacing	2.5" apart

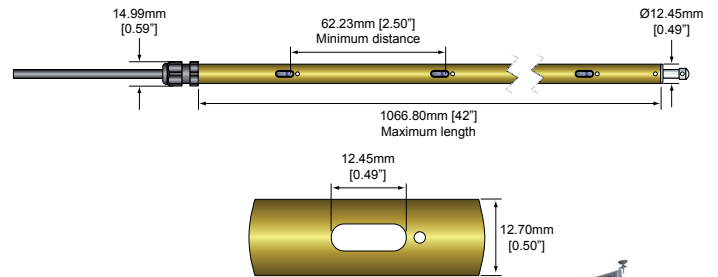
## minimum software requirements

Windows 2000/XP OS®
50 MB Free Disk Space
1.0 GHz Processor
2 GB RAM
Data Management on the Web with the °C Port3600 Data Collection Instrument

## custom test fixtures

Our Engineering Team will help you design a test fixture to fit your requirements thereby maximizing the use of °C SPARs in your application. We have assisted Industry leaders in designing and using AccuSense™ sensing technology in multipoint air grids for over a decade. This includes Data Center & Electronic Cooling, Aerospace, Automotive, Building HVAC systems, and BioSafety Containment Enclosures.

Contact a Degree Controls Application Engineer for more information to meet your special requirements.



Floor Tile Test Fixture

Vertical Rack Test Fixture

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Specifications subject to change without notice.

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