



DEGREE CONTROLS, INC.

Your Partner for Airflow Sensing & Controls

°C Point anemometer



Application

- Clean Technology & Laboratory
 - Chemical Fume Hoods
 - Laminar Flow Hoods
 - Biosafety Cabinetry
 - Clean Benches
 - HEPA & Filter Boxes
 - Critical Containment
- HVAC
 - Ducting
 - Heat Exchangers
 - VAV Control
 - Ventilation Systems
- Engineering Controls / Facility Maintenance
- Laboratory & Building Management Systems

Overview

The handheld °C Point anemometer measures and displays air velocity and temperature simultaneously and is designed for face velocity and downflow testing of laboratory hoods and other high performance applications. An extended sensor head is available for HVAC measurement and system assessments.

The °C Point air velocity and temperature instrument is capable of measuring with $\pm 3\%$ accuracy, in accordance with the ANSI/ASHRAE 110 and NSF 49 standards for laboratory fume hood and biosafety cabinet testing. °C Point application software compensates for changing humidity and barometric pressure and saves airflow experiments via Bluetooth to your Android mobile device or iPhone. Sensor heads are rugged, designed with sealed enclosure for durability.

°C Point is convenient and easy to use. With onboard LCD display, built in USB port for charging, and Bluetooth enabled °C Point application software, °C Point can be used to take single point, spot measurements, or log data over time. °C Point fits comfortably in your hand and also interfaces with a wide variety of standard camera mounts and selfie sticks. In addition, sensor heads are field replaceable and can be changed out by you, at your location.

Certifiers and EH&S professionals can register their recalibration online and receive their replacement °C Point sensor head in advance of returning the old one--no more calibration downtime.

Electrical & Performance Features Mechanical Features

- Industry-leading air velocity performance, capable of 3% accuracy, and repeatability within 1%.
- Temperature compensated up to 70°C (158°F).
- Temperature repeatability within $\pm 1^\circ\text{C}$.
- Real-time wireless communication over Bluetooth with °C Point application software.
- < 5 sec second warm up time.
- Up to 20 hours battery life.
- Portable °C Point anemometer fits comfortably in your hand.
- Universal 1/4"-20 mounting interfaces with standard camera mounts and selfie sticks.
- Integrated LCD display for instantaneous viewing of air velocity and temperature measurements simultaneously.
- Built-in USB port for charging.
- Field replaceable sensor heads.
- Optimized flow geometry with segregation of velocity and temperature elements for highest accuracy.

Software Features

- Real-time data collection with CPoint software.
- Environmental compensation for changing humidity and barometric pressure (altitude).
- Save compensated airflow readings to your Android/iOS device and export as csv format.
- Switch between data and graph views to view data in tabular format or plotted linearly.
- Built-in statistical analysis tools.

- Best in class acceptance angle performance.
- Printed insertion depth markers (extended sensor head) and flow direction arrows.
- Robust, protected probe assembly uses corrosion and UV resistant materials.
- RoHS compliant

Degree Controls, Inc.

is an ISO-9001 certified, world-class designer and manufacturer of airflow sensing, monitoring, and control solutions. With over 25 years of proven experience, we pride ourselves on delivering solutions which provide the value, differentiation, and service required by our customers, to meet the rapidly changing competitive landscape that they face.

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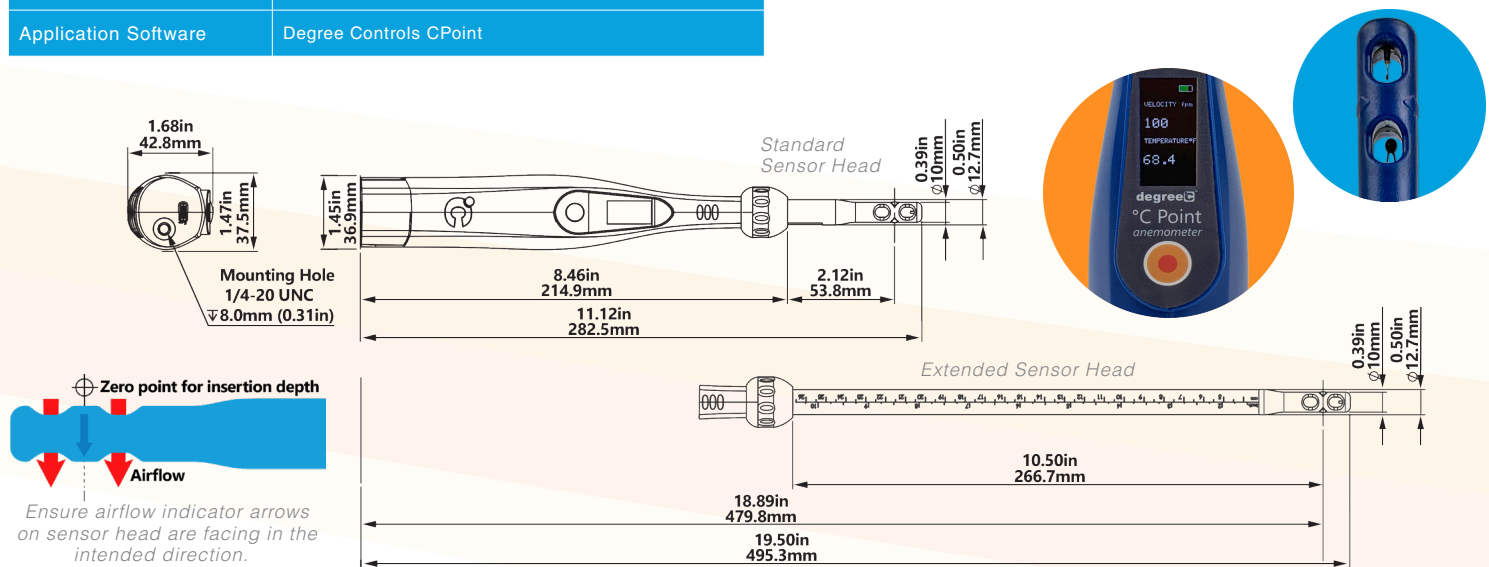


Specifications

Velocity Range	0.15 – 20.0 m/s (30 - 4000 fpm)
Acceptance Angle	± 30°
Operating Temperature Sensor Base	0°C to 70°C (32°F to 158°F) 0°C to 55°C (32°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5-95% (non-condensing)
Power Requirements	Supplied by fast charging, lithium-ion battery Up to 20 hours battery life
Warm Up Time	< 5 sec
Response Time	10 sec
Charging Interface	USB-C Female
Communication Interface	Bluetooth
Application Software	Degree Controls CPoint

Power Switch	Tactile
LCD Display	Color
Modes of Operation	Grip for handheld use, ¼-20 captive nut for mounting
Housing Construction	Polycarbonate (PC) – ABS blend, UL94-V0
Size*	282.5mm x 37.5mm x 42.8mm (11.12" x 1.47" x 1.68")
Weight	<0.5 kg (<1 lb)
Package Size	35.0 cm x 15.3 cm x 5.5 cm (13.78" x 6.03" x 2.18")
Package Weight	<0.9 kg (<2 lbs)

*Standard sensor head installed



Airflow & Air Velocity Temperature Measurement

Temperature Compensation Range: 0-70°C (32-158°F)
Accuracy (the greater of): ±0.015m/s (3fpm) or ±3% of reading
Repeatability (the greater of): 1% or ±0.01m/s (2fpm)

Temperature Compensation Range: The °C Point is a thermal airflow sensor; it is sensitive to changes in air density and indicates velocity with reference to a set of standard conditions 25°C (77°F), 760mmHg (101.325kPa), and 0%RH. The °C Point has been designed so that when used over the stated temperature compensation range, the sensor indicates very close to actual air velocity and minimal compensation is only required to account for changes in barometric pressure or altitude.

Accuracy: Valid between 15-35°C (60-95°F), increasing by ±0.25% per degree and ±0.005m/s (1fpm) over remaining temperature compensation range.

¹Above 0.5m/s (100fpm), ±1.5°C (2.7°F) below 0.5m/s (100fpm).

Temperature

Measurement Range: 0-70°C (32-158°F)
Measurement Accuracy¹: ±1°C (1.8°F)
Resolution: ±0.1°C

Part Number Format TC58700-S

S = Sensor

- 1 = No Sensor
- 2 = Standard Sensor
- 3 = Extended Sensor



Contact Degree Controls for
°C Point Mounting System Accessories



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