

°C Point *anemometer* User Manual



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1 Introduction

Congratulations on your recent purchase of a °C Point anemometer.

You have joined hundreds of leading companies throughout the world who use Degree Controls' line of airflow test and measurement instrumentation to develop better products, make environments safer, reduce their carbon footprint, and enhance personal comfort. We expect you will derive many years of use from your new test and measurement instrument. We are committed to your success, and we thank you for your purchase.

The intent of this manual is to introduce you to the °C Point anemometer, and to make set up fast and easy, while providing guidelines for successful testing.

1.1 Product Overview

DegreeC's portable, handheld °C Point anemometer is an instrument for certifiers and air quality and safety professionals to gather real-time airflow information. It is a flexible air velocity and temperature measurement solution with robust, field replaceable sensor heads, on board LCD display and built-in USB port for charging. Powerful, concise °C Point application software connects the airflow sensor to your Android/iPhone device over Bluetooth for real time data logging as well as compensation for changing humidity and barometric pressure (altitude).

The °C Point anemometer is ideal for face velocity and downflow testing of laboratory hoods and other high performance applications. 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.

1.2 Features

The versatile °C Point anemometer is designed to make airflow measurement and testing easy and convenient. Use the portable °C Point with interchangeable sensor heads to take spot measurements, or log data with °C Point application software. Key features of the °C Point anemometer include:

- Measures and displays air velocity and air temperature simultaneously.
- High accuracy sensor heads are 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.
- Connect the °C Point sensor to your mobile device over Bluetooth with °C Point application software (Android/iPhone).
- Over-the-air device firmware updates.
- Use the °C Point to take single point, spot measurements, or log data over time.
- Environmental compensation for changing humidity and barometric pressure (altitude).
- Compensated airflow readings can be saved to your Android/iPhone device and exported in standard csv format.
- NIST traceable sensor calibration.

- Sensor heads are field replaceable making the recalibration process more convenient. Simply return the sensor head to the factory, or purchase a new one to eliminate any downtime.
- Swapping sensor heads is quick and easy and does not require recalibration or the use of any tools.
- The extended sensor head option makes it easy to measure at ceiling ducts and other hard to reach places.
- Long life lithium-ion battery recharges quickly when the battery has been depleted.
- Built-in USB port for charging.
- Onboard LCD display for instant viewing of air velocity and temperature measurements.
- Durable, high performance air velocity and temperature sensor is designed with sealed enclosure for demanding applications.
- The portable °C Point anemometer fits comfortably in your hand.
- Universal ¼-20 mounting interfaces with standard camera mounts and selfie sticks, as well as conversion adapters for GoPro mounting systems.

2 Contents

Your °C Point instrument ships in protective foam packaging. Inside you will find:

- °C Point Base (TC58700)
- USB Cable, 3ft USB 2.0 USB-C to USB-A M/M
- °C Point Sensor Head (FS58701)
- °C Point Anemometer Quick Start Guide



Figure 1 °C Point Base



Figure 2 °C Point Sensor Head

Notes:

1. °C Point application software is available for download at Google Play or the App Store.
2. The °C Point Base includes installed lithium battery.

Optional Accessories and Services:

- °C Point Extended Sensor Head (FS58702)
- Mounting systems – Subject to change, please contact sales@degrec.com for the most up to date information on extension selfie sticks and mounting systems for the °C Point anemometer.

See the [calibration section](#) to initiate a sensor head recalibration or other factory service.

3 Hardware Overview

Power Switch– Switch power on or off. Power switch functions are:

- Power on – Press and release
- Power off – Press for approximately 3 seconds and then release

- Collect a single set of sensor data – With continuous polling disabled, press and release to collect and display a single set of measurements in the data view screen of the application software.
- Display Device ID – Press and release during operation to display the Device ID, a unique identifier for the °C Point instrument. This is helpful when you are using multiple °C Point instruments.

LCD Display – Shows air velocity and temperature information. Default units are Imperial, and this can be changed by the user in the °C Point application Preferences screen. At startup, the splash screen appears along with *calibration due date* for the sensor head. During normal operation, the display shows:

- Battery status - Battery icon shows charge level
- Air velocity
- Air temperature



Figure 3 LCD Display

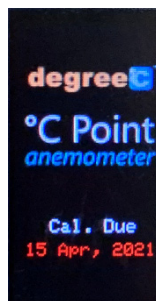


Figure 4 Calibration Reminder



Figure 5 Device ID, Bottom of Display

USB Port - USB-C Female

Modes of Operation – Grip for handheld use or ¼-20 captive nut for mounting, maximum screw depth of 8mm (0.31)".

Labels

Base Label – The data matrix denotes date of manufacture and serial number of the °C Point base. Serial number and part number should be noted when calibration or RMA work is required. Please see the calibration and repairs sections for process information.

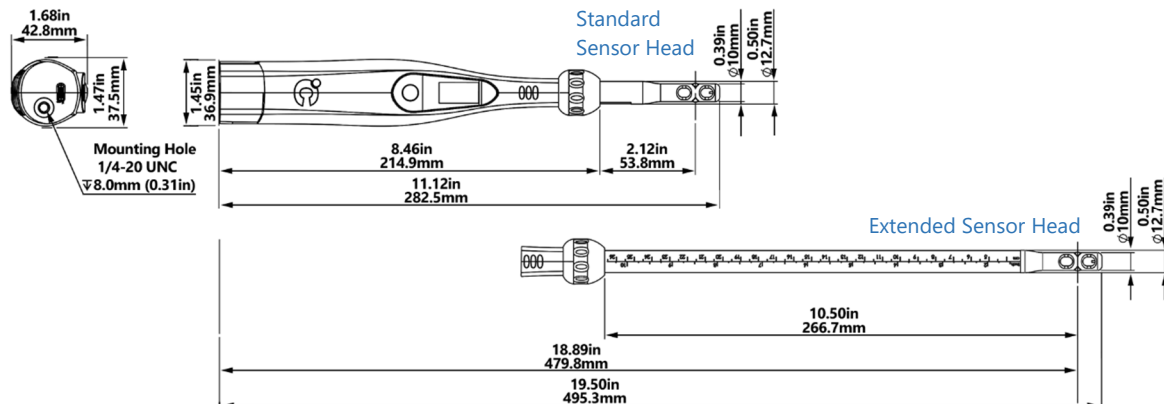


Figure 6 °C Point Base, Bottom View

Sensor Head Label – Denotes part number and serial number of the sensor head. Both should be noted when calibration or RMA work is required.

Battery – Long life, rechargeable lithium-ion battery. In the unlikely event that battery replacement is needed, it is easily done by trained Degree Controls technicians.

4 Mechanical Information



A standard 1/4-20 thread in the base of the °C Point is compatible with a wide variety of tripods, selfie sticks and camera mounts, however if a custom fixture is used, take care not to exceed the maximum screw depth of 8mm (0.31)".

5 Set Up Your °C Point Instrument

5.1 °C Point Application Software

The °C Point application is the interface software which allows you to configure and extract data from the °C Point instrument. Prior to setting up your °C Point instrument, ensure that you have first installed the °C Point application onto your device.

Degree Controls °C Point for Android is available on Google Play:

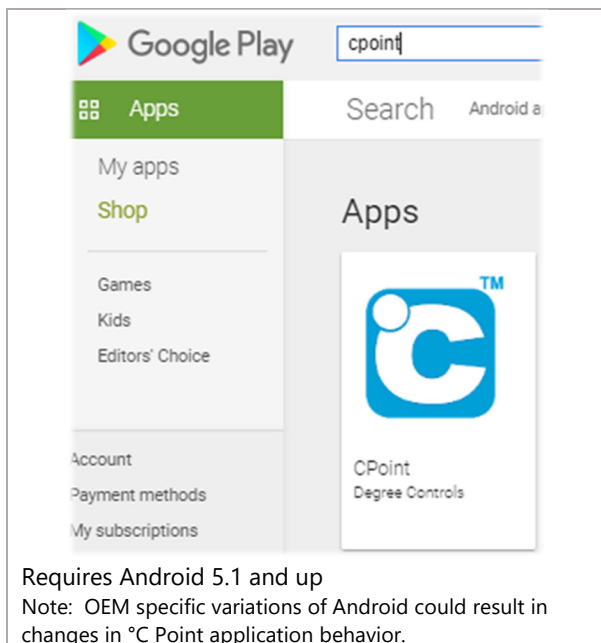
<https://play.google.com/store/apps/details?id=com.DegreeC.CPoint>



Degree Controls °C Point for iPhone is available on the App Store:

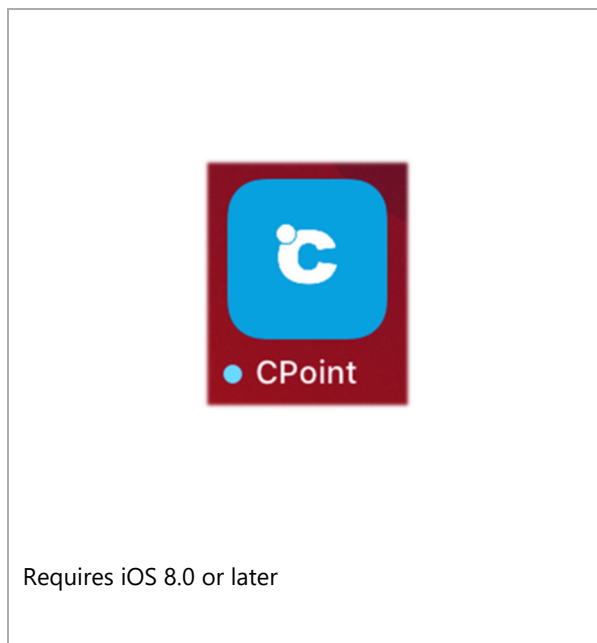
<https://apps.apple.com/in/app/c-point/id1517401723>





Requires Android 5.1 and up

Note: OEM specific variations of Android could result in changes in °C Point application behavior.

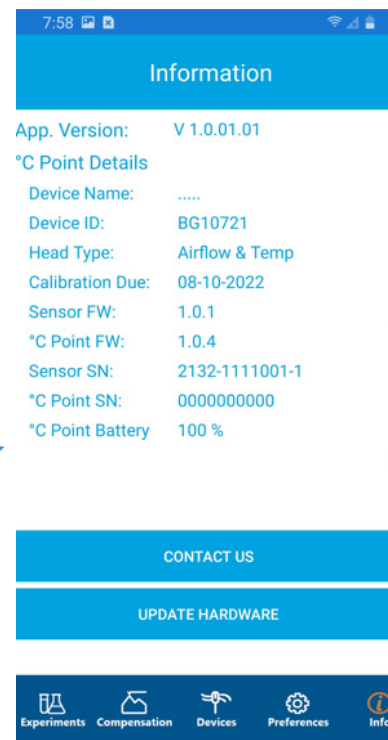


Requires iOS 8.0 or later

Android users may need to allow °C Point to access device location as well as files on the device.

iPhone users may need to allow °C Point to use Bluetooth.

If an OTA DFU (over-the-air device firmware update) is available, you will be prompted to update firmware from the Devices screen. The °C Point's battery level should be greater than 50% to proceed. An OTA firmware update may also be initiated from the Info screen by selecting *Update Hardware*.



Battery Level

Update Hardware

5.2 Set Up

The steps to begin measuring air velocity and temperature are as follows:

Note: If the sensor head is already installed, skip to step 3.

1. Ensure power is off, and remove the orange collar from the base by unscrewing it and pulling it away from the base.
2. Install sensor head to base. The straight edge of the sensor head aligns with the straight edge of the opening in the base. The sensor head cannot be installed incorrectly, and connections are self-aligning.

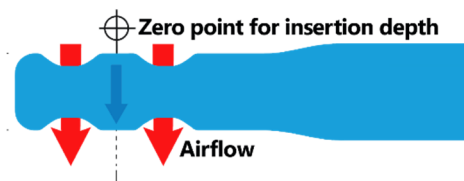


Figure 7 Straight Edge & Connections



Figure 8 Sensor Head Installation

3. Press the power switch to turn on °C Point. The display will show air velocity and temperature data after startup.
4. Launch the °C Point application software, and select your °C Point instrument from the Devices screen to connect through Bluetooth.
5. Install °C Point in the desired measurement location. Take care with sensor mounting and location to ensure that the instrument functions according to specifications:
 - Locate the sensor in the best laminar (stable) flow possible, and follow ASHRAE best practices.
 - Orient the main airflow cavity surrounding the flow thermistor perpendicular to the airflow being monitored.
 - Ensure flow direction arrows on the sensor head point in the direction of airflow.



You are now ready to start your airflow experiment. You may update compensation settings and/or preferences, or simply choose *Start* from the Experiments screen to begin logging data.

6 Use and Operation

°C Point application software displays the Devices screen the first time it is launched. The main menu appears at the bottom of your device's screen.



Figure 9 Main Menu Bar

Under the continuous polling mode, the °C Point application continually collects and displays measurements. Under the single mode, °C Point collects and displays a single set of measurements only if the power switch is pressed momentarily. Note: The button press reading feature is available for °C Points with on-board firmware at version 1.0.5 or greater.

6.1 Experiments

Tabs for a new experiment and saved experiments are available from the Experiments screen.

New Experiment

You may start/stop sensor polling, view data in tabular or graphical format, and save or discard data from the New Experiments tab.

11:15

Data Graph

	Max	8	72.4
	Min	5	72.2
	Average	6	72.3
#	Time	Velocity (fpm)	Temp (°F)
145	11:15:19 AM	6	72.4
146	11:15:20 AM	6	72.4
147	11:15:21 AM	6	72.4
148	11:15:22 AM	6	72.4
149	11:15:23 AM	6	72.4
150	11:15:24 AM	6	72.4
151	11:15:25 AM	6	72.4
152	11:15:26 AM	6	72.4
153	11:15:27 AM	6	72.4
154	11:15:28 AM	6	72.4
155	11:15:29 AM	6	72.4
156	11:15:30 AM	6	72.4
157	11:15:31 AM	6	72.4
158	11:15:32 AM	6	72.4
159	11:15:33 AM	6	72.4
160	11:15:34 AM	6	72.4
161	11:15:35 AM	6	72.4
162	11:15:36 AM	7	72.4

Pause

Stop

Experiments

Compensation

Devices

Preferences

Info

Figure 10 Data View

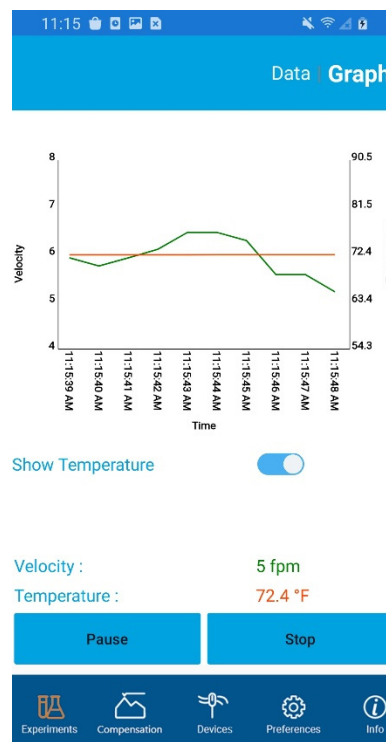


Figure 11 Graph View

Start - Begin data collection.

Data - Displays airflow data in tabular format.

Graph - Displays airflow data in graphical format.

Pause - Pause data collection.

Stop - Stop data collection.

Once you choose to stop polling the sensor, name your experiment, and then select **Save**. Optionally, you may **Discard** the data.

Play - Resume data collection.



49	10:40:50 AM	11	72.9
50	10:40:51 AM	11	72.9
51	10:40:52 AM	11	72.9
52	10:40:53 AM	11	72.9
53	10:40:54 AM	10	72.9
54	10:40:55 AM	11	72.9
55	10:40:56 AM	11	72.9
56	10:40:57 AM	11	72.9
57	10:40:58 AM	11	72.9
58	10:40:59 AM	10	72.9
59	10:41:00 AM	10	72.9
60	10:41:01 AM	11	72.9
61	10:41:02 AM	10	72.9
62	10:41:03 AM	11	72.9
63	10:41:04 AM	10	72.9

Face vel 1 Save Discard

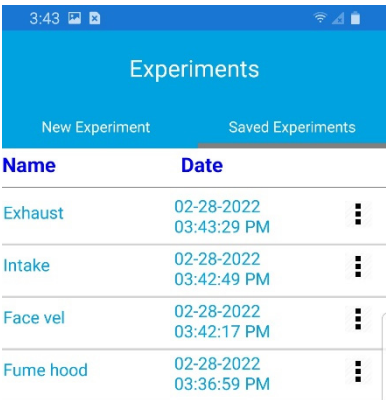
st AM PM ...

1 2 3 4 5 6 7 8 9 0

Figure 12 Save Experiment

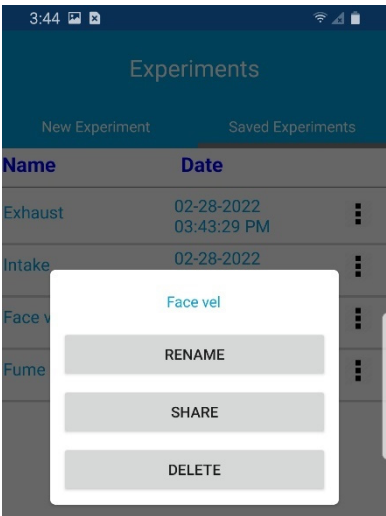
Saved Experiments

You may view, sort, rename, export, and delete saved experiments from the Saved Experiments tab.



Name - Sort by name.
Date - Sort by date.

Figure 13 Saved Experiments



■ ■ ■	Display additional <i>options</i> .
RENAME	<i>Rename</i> saved experiment.
SHARE	<i>Share</i> saved experiment in csv format.
DELETE	<i>Delete</i> saved experiment.

Figure 14 Additional Options Menu

6.2 Compensation

Within the Compensation screen, users can enable/disable environmental compensation for sensor readings and enter settings for atmospheric pressure and humidity.

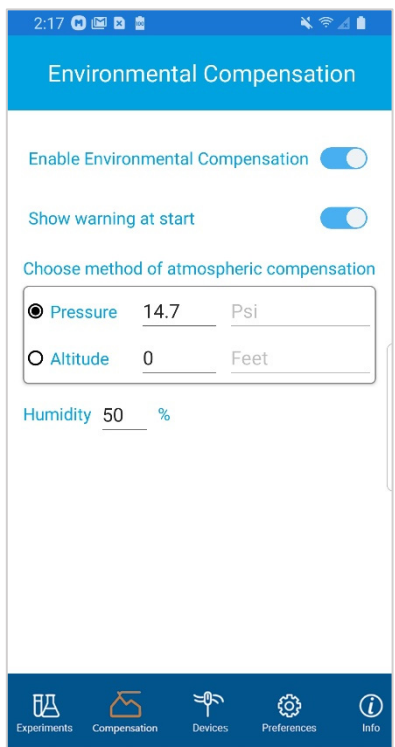


Figure 15 Environmental Compensation Options

Enable Environmental Compensation - Enable or disable environmental compensation.

Show warning at start – Enable or disable environmental compensation prompt when starting a new experiment.

Pressure (Psi/HectoPascal) – Select, and enter pressure value to be used for atmospheric compensation.

Altitude (Feet/Meter) – Select, and enter altitude value to be used for atmospheric compensation.

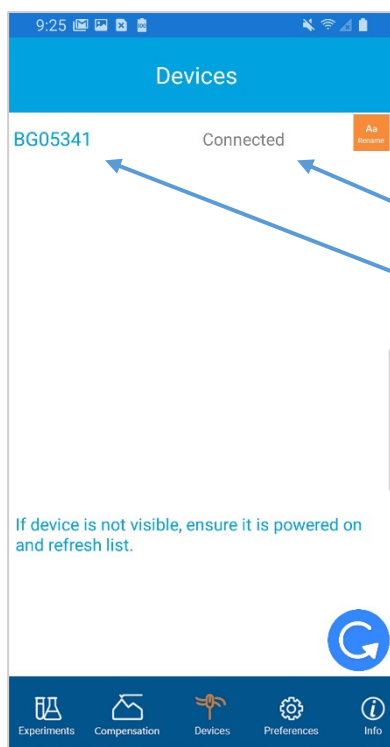
Humidity (%) – Enter humidity value to be used for compensation.

Notes:

1. Imperial/Metric units can be selected from the Preferences screen.
2. The method of atmospheric compensation is a choice. Select and enter a value for pressure *or* for altitude.

6.3 Devices

The devices screen displays a list of °C Point instruments that are within range. Make a Bluetooth connection by pressing the Device ID.



 - Rename the °C Point instrument.

Connection Status – Connected or Disconnected

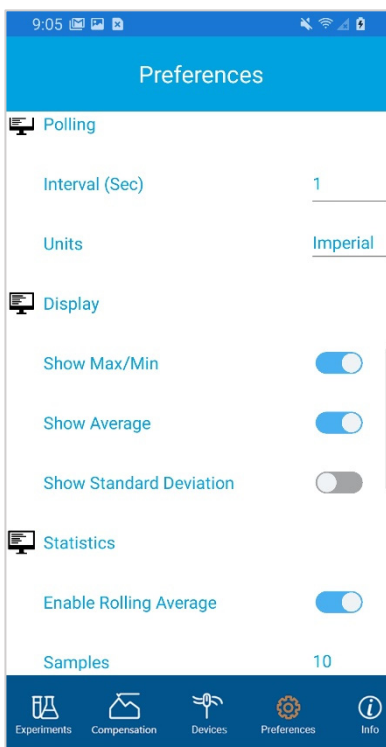
Device ID – Press to connect. Device ID is the unique ID that is displayed on the sensor when you press and release the power switch. You can use this information if you have multiple devices and want to identify one.

Notes:

1. Android users - Allow °C Point to access device location as well as files on the device.
2. iPhone users - Allow °C Point to use Bluetooth.

Figure 16 Bluetooth Connection to °C Point

6.4 Preferences



Options for sensor polling, display settings, statistics, and volumetric flow are provided on the Preferences screen.

Interval – Customize the polling interval.

Units – Select Imperial or Metric units.

Show Max/Min – Show maximum and minimum sensor statistics in the data view of experiments.

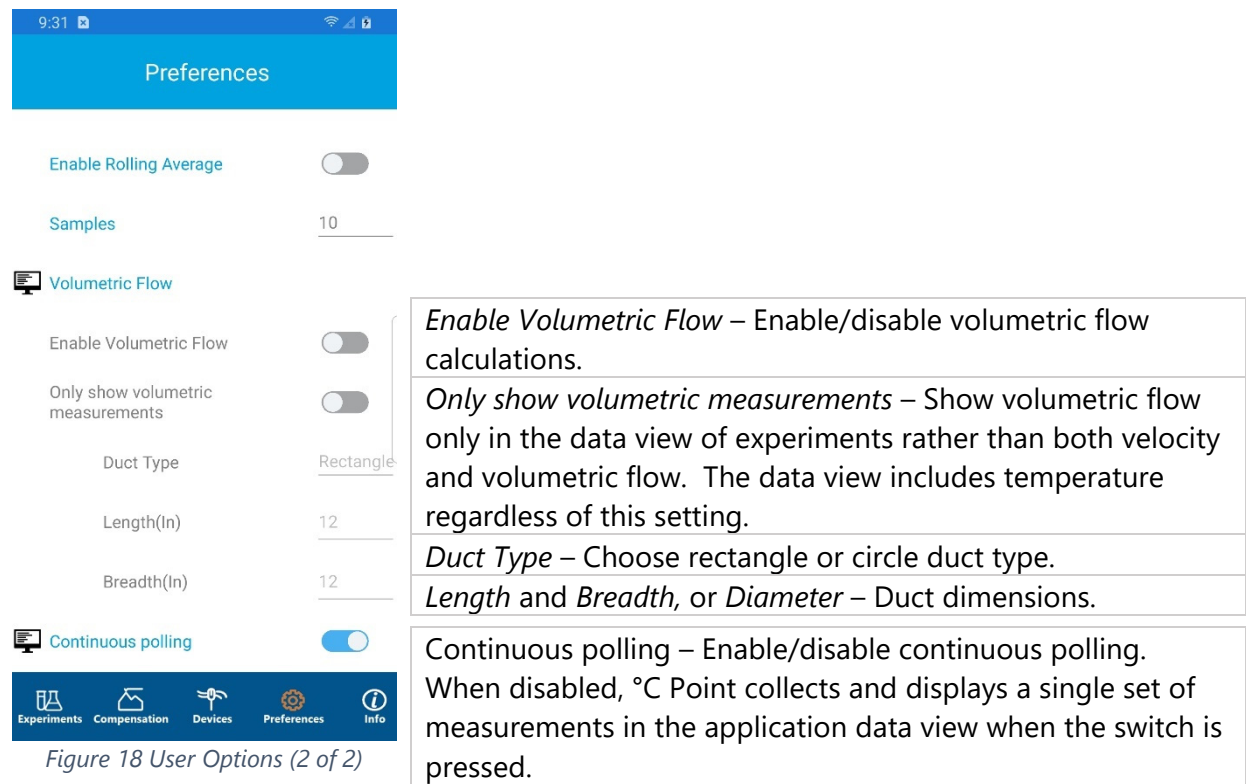
Show Average – Show average sensor statistics in the data view of experiments.

Show Standard Deviation – Show standard deviation sensor statistics in the data view of experiments.

Enable Rolling Average – Enable/disable rolling average for sensor statistics.

Samples – Number of samples used to calculate a rolling average for sensor statistics.

Figure 17 User Options (1 of 2)



6.5 Info

The information screen identifies the °C Point application software as well as the °C Point anemometer and includes parameters and serial numbers which should be noted when calibration work is required.

The calibration due date displays in orange when the device is within one month of the due date, and displays in red when calibration is past due. See the calibration and repairs sections for service information.



Figure 19 °C Point Instrument Identification

7 Troubleshooting

Symptom	Possible Corrective Action
Device is not visible.	1. Ensure °C Point is powered on. 2. Ensure Bluetooth is enabled. 3. Android users – Ensure you've allowed °C Point to access your device location as well as files on your device. 4. iPhone users – Ensure you've allowed °C Point to use Bluetooth.
Missing Info menu, overlapping text.	Change the Display setting on your device from Zoom to Standard.
	Recharge the battery using the supplied USB cable or equivalent USB charging cable.
Data on smart mobile device is not visible via USB connection to PC.	Confirm that the USB cable is connected properly. Android users – Ensure your phone is connected as a storage device. Select the USB option, and enable Use USB to Transfer Files.

Symptom	Possible Corrective Action
Unexpected air velocity result.	1. <i>Calibration date</i> - Verify that sensor is within the calibration date. 2. <i>Airflow direction</i> - Confirm that sensor is positioned into the airflow with the correct orientation. 3. <i>Angle of incidence</i> – Ensure that the air velocity sensor is perpendicular to the airflow direction and that fixturing is not imparting any turbulence. 4. <i>Environmental compensation</i> - Air velocity sensor readings are impacted by different air pressure (density) and humidity measurements. Are these compensated-for, in your readings? 5. <i>Reference standard</i> - If comparing the DegreeC sensor to another reference, please ensure the reference is NIST traceable and in-calibration. 6. <i>Visible effects</i> - Check the sensor for deposits on the sensor head, and any visible damage, or any external fixtures or barriers which create turbulence.

8 Calibration

Your °C Point sensor head will arrive pre-calibrated. All air velocity and temperature sensors should be periodically re-calibrated to ensure accurate readings. You can determine the date that the sensor needs to come back to DegreeC for calibration by looking at the LCD display upon startup or the Info screen in °C Point application software. °C Point sensor heads are field replaceable, making the recalibration process more convenient. Simply return the sensor head to the factory, or purchase a new one to eliminate any downtime.

Please note that when Degree Controls performs a recalibration, we exercise the sensors across their performance range and reprogram the electronics inside. Any ongoing improvements to our internal algorithms are also programmed in at this time to ensure our user base is using the best available internal firmware. These updates are included as part of your sensor recalibration.

Caution: Generic recalibration facilities will “spot check” a sensor at one or two flow points in the calibrated range of the sensor. While this is useful to predict functionality, it is not a rigorous and complete recalibration.

8.1 Requesting Calibration Services

The steps to have your °C Point sensor head recalibrated are:



1. Place your online order for °C Point Recalibration at <https://degrec.com/pages/c-point-anemometer>.
 - Continue using your existing °C Point sensor head until you receive your replacement.
 - A new °C Point sensor head will ship to you within 5 business days.
 - If you ordered Before Data, then we will issue the calibration report within 10 days of receipt.



2. Receive your new °C Point sensor head.
 - Note: The calibration due date is stored in the sensor head and will be recognized by the °C Point base and shown on the LCD display.



3. Upon receipt, immediately put the old sensor head in the same package, apply the shipping label, and return ship.



4. Degree Controls will issue a credit within 3-5 days of receipt of the old sensor head.

8.2 Removing the Sensor Head

Steps to remove the sensor head are as follows:

1. Ensure power is off, and remove the orange collar by unscrewing it and then pulling it away from the base.
2. Pull the sensor head away from the base to remove it.

Reference the set up section for additional details.

9 Repairs

To initiate a repair order, visit us online at <https://degreec.com/pages/rma>, or contact us at rma@degreec.com and request a return material authorization form, and we will walk you through the process.

Degree Controls will issue an RMA number, lead-time, and associated quote. Generally, RMAs are processed within 5 days of receipt.

Email sales inquiries to sales@degreec.com.

10 Cleaning

Your °C Point should be cleaned with a damp cloth and non-etching cleaner. A mild detergent is acceptable for surfaces. **Do not** employ alcohol or ammonia-based cleaners.

Caution: **Do not** contact the sensor element for cleaning purposes. The sensor element should be cleaned by Degree Controls. However, for dust particles, carefully applying compressed air at a safe distance from the element is an acceptable cleaning method. Skilled users may clean the sensor head by means of ultra-sonic bath.

11 Safety Guidelines

Below are important notices and safety instructions. Please read carefully, and follow all warnings and instructions marked on the °C Point and in this manual.



Never operate the °C Point instrument in and around water.



Never operate the °C Point instrument in, or near, a flammable environment.



The °C Point instrument and associated sensors are designed for clean air. Air containing chemicals (for example, hazardous gases) may damage the sensor head irreversibly.



The °C Point should be used and stored in the ranges specified.



If smoke is present, or liquid has spilled, or the °C Point is physically damaged, turn off the unit immediately.



If the °C Point becomes hot to the touch, turn off the unit immediately.



This °C Point instrument uses a rechargeable lithium-ion battery. Always dispose of lithium-ion batteries and transport lithium-ion batteries in compliance with local regulations.



°C Point uses a rechargeable lithium-ion battery designed to last the lifetime of the product. In the unlikely event that you should require a replacement battery, please contact Degree Controls for service. The battery is easily replaced and is serviceable by trained factory technicians only.



The °C Point and associated sensors should only be opened and repaired by Degree Controls, Inc. Failure to do so will void warranty.



Never touch the sensor element.



Remove the sensor head from the base before putting it into the ultrasonic bath.

12 Specifications

°C Point

anemometer

Model	°C Point anemometer
Description	Air velocity and temperature instrument
Velocity Range	0.15 – 20.0 m/s (30 - 4000 fpm)
Acceptance Angle	± 30°
Operating Temperature	
Sensor	0°C to 70°C (32°F to 158°F)
Base	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 After Power Up	< 5 sec
Response Time	10 sec
Power Switch	Tactile
LCD Display	Color
Charging Interface	USB-C Female
Communication Interface	Bluetooth
Application Software	Degree Controls °C Point Available on Google Play and available on the App Store
Modes of Operation	Grip for handheld use, ¼-20 captive nut for mounting
Housing Construction	Polycarbonate (PC) – ABS blend, UL94-V0
Size (with standard sensor head)	282.5mm x 37.5mm x 42.8mm (11.12" x 1.47" x 1.68")
Weight (with standard sensor head)	<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)

Air Velocity

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

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

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).

12.1 Compliance

CE / FCC / RoHS

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Contains Transmitter Module FCC ID: QQQBGM12LMA

Degree Controls Warranty

For a period of one (1) year following the date of delivery, and subject to the other provisions of this Warranty Section, DegreeC warrants that all new products that are both (a) manufactured by DegreeC and (b) purchased directly from DegreeC (or an authorized distributor of DegreeC) shall be free of material defects in materials and workmanship. Buyer's sole and exclusive remedy, and DegreeC's sole and exclusive obligation, in the event of any product defect shall be for DegreeC to, at its option, repair or replace such products free of charge. In no event shall DegreeC be liable for ordinary wear and tear. In order to get the benefit of the foregoing warranty, Buyer must examine the delivered products immediately upon receipt thereof and report to DegreeC, in writing, any visible defects within ten (10) working days of such receipt. Buyer's failure to report defects within the foregoing time period will be deemed an unqualified waiver of any and all of Buyer's rights to warranty claims. DegreeC does not provide any warranty for third party parts, components, or products that are not manufactured by DegreeC. Such parts, components, or products may be warranted by third parties on a "pass through" basis. The foregoing remedies shall not apply to any product failure caused in whole or in part by (i) Buyer's failure to operate, maintain, or service the products in accordance with DegreeC's documentation, (ii) any alteration, modification, or repair made to the products other than by DegreeC, or (iii) use of the products for a purpose other than that for which it is intended. THE FOREGOING EXPRESS WARRANTY extends only to the original customer of DegreeC or DegreeC's authorized distributor, as the case may be. THE CORRECTION OF ANY DEFECT IN, OR FAILURE OF, PRODUCTS BY REPAIR OR REPLACEMENT IN ACCORDANCE WITH DEGREEC'S POLICIES DESCRIBED HEREIN SHALL BE DEGREEC'S SOLE AND EXCLUSIVE OBLIGATION AND THE SOLE AND EXCLUSIVE REMEDY OF BUYER FOR ANY AND ALL LOSSES, DELAYS OR DAMAGES RESULTING FROM THE PURCHASE OR USE OF DEGREEC'S PRODUCTS. OTHER THAN THE LIMITED WARRANTY SPECIFICALLY STATED HEREIN, DEGREEC SPECIFICALLY DISCLAIMS ANY AND ALL OTHER WARRANTIES WITH RESPECT TO DEGREEC'S PRODUCTS, INCLUDING THE PERFORMANCE THEREOF AND ANY SERVICES PROVIDED TO BUYER, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE, NON-INFRINGEMENT AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE.