



# Allure UNITOUCH™

Occupant focused interface with  
touchscreen, sensors, and  
mobile app support



## Overview

Compatible with any ECLYPSE Series Controller, the Allure UNITOUCH is an elegant, occupant focused room device that provides an intuitive user interface for the control of temperature, lighting, fan speed, sunblinds. Allure UNITOUCH is compatible with *my PERSONIFY* for wireless control of comfort parameters from a smartphone.

The high resolution 3.5" capacitive touchscreen makes this communicating sensor the ideal all-in-one solution for a wide range of applications and is a perfect addition to the Smart Room Control solution.

## Features & Benefits

- Elegant and compact design, provides a modern appearance when installed in any environment
- Mobile app control via *Bluetooth*® low energy technology for direct connection with a mirrored interface
- Unique user experience with an intuitive control scheme for control of temperature, fan speed, lighting, and sunblinds, from a single device
- Distinctive solution that offers advanced technologies within a single product: Bluetooth low energy, glass front panel, capacitive touchscreen, LCD color display, sensors, etc.
- Control HVAC, and up to 8 lighting groups and 8 shades/sunblinds groups, handled simultaneously or individually
- The ECO-Vue leaf pattern graphically indicates energy consumption in real time to promote an occupant's energy-conscious behavior.
- Optional CO<sub>2</sub> sensor facilitates demand-controlled ventilation strategies
- Easy customization with Distech Controls' EC-*gfx*Program
- Home and menu screens can be customized to display, for example, the installer's logo or end-client's logo
- Quick and easy installation: Both power and communications pass through a single Cat 5e cable
- Flexible User Interface: the occupant can activate a series of settings predefined in EC-*gfx*Program such as meeting modes or tunable white settings
- Personalise the menu by adding your own mobile app name and related QR code in the Allure UNITOUCH user interface via the ECLYPSE RESTful API

# Model Selection

Example: Allure UNITOUCH-**B-CH** (Black with CO<sub>2</sub> and Humidity sensor)

| Series           | Color                                | Sensor Options                                                                                                   |
|------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Allure UNITOUCH- | <b>B</b> : Black<br><b>W</b> : White | [blank]: no options<br><b>-H</b> : with Humidity sensor<br><b>-CH</b> : with CO <sub>2</sub> and Humidity sensor |

## Product Specifications

### Power Supply Input

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Voltage           | 16 VDC maximum, Class 2 (subnet powered)                                  |
| Power Consumption | 1.8W (with CO <sub>2</sub> sensor)<br>1W (without CO <sub>2</sub> sensor) |

### Wired Communications

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Compatible Controllers <sup>1</sup> | ECY-PTU/TU, ECY-VAV, ECY-303, ECY-S1000     |
| Baud rate                           | 38 400 bps                                  |
| Communications                      | RS-485                                      |
| Topology                            | Daisy-chain                                 |
| Wiring                              | Maximum cable length: 100m (328 ft)         |
| Addressing                          | On-screen selectable                        |
| Cable Type                          | T568B Cat 5e network cable, 4 twisted pairs |
| Connectors                          | 2 x RJ-45 (pass-through)                    |

1. A mixed architecture with standard room devices and Bluetooth low energy enabled devices is not recommended.

### Wireless Communications

|           |                 |
|-----------|-----------------|
| Type      | Bluetooth 4.2   |
| Frequency | 2402 - 2480 MHz |

### Temperature Sensor

|            |                                                                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range      | 0°C to 50°C (32°F to 122°F)                                                                                                                                 |
| Accuracy   | Sensing component; $\pm 0.20^{\circ}\text{C}$ ( $\pm 0.36^{\circ}\text{F}$ )<br>Overall accuracy; $\pm 0.50^{\circ}\text{C}$ ( $\pm 0.90^{\circ}\text{F}$ ) |
| Resolution | 0.10°C (0.18°F)                                                                                                                                             |

### Humidity Sensor

|            |                               |
|------------|-------------------------------|
| Accuracy   | $\leq \pm 3\%$ : RH 0% to 70% |
| Resolution | 1%                            |

### CO<sub>2</sub> Sensor

|                                       |                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Measurement Range                     | 0 to 2000 ppm                                                                                                  |
| Operating Elevation                   | 0 to 4877m (16000 ft)                                                                                          |
| Warm-up Time                          | $< 2$ minutes (operational), 10 minutes (maximum accuracy)                                                     |
| CO <sub>2</sub> Accuracy <sup>1</sup> | 400-1250 ppm $\pm 30$ ppm or 3% of reading, whichever is greater<br>1250-2000 ppm $\pm 5\%$ of reading + 30ppm |

1. Tolerance based on span gas of  $\pm 2\%$  and ABC Logic enabled.

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Temperature Dependence | $\pm 0.2\%$ FS per $^{\circ}\text{C}$ ( $\pm 0.11\%$ per $^{\circ}\text{F}$ ) |
|------------------------|-------------------------------------------------------------------------------|

|           |                                              |
|-----------|----------------------------------------------|
| Stability | $< 2\%$ of FS over life of sensor (15 years) |
|-----------|----------------------------------------------|

|                     |                                                  |
|---------------------|--------------------------------------------------|
| Pressure Dependence | 0.135% of reading per mm Hg; software adjustable |
|---------------------|--------------------------------------------------|

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
| Sensing Method | Non-dispersive infrared (NDIR) absorption<br>Gold-plated optics |
|----------------|-----------------------------------------------------------------|

|                    |                                               |
|--------------------|-----------------------------------------------|
| Calibration Method | Patented ABC Logic self-calibration algorithm |
|--------------------|-----------------------------------------------|

1. Tolerance based on span gas of  $\pm 2\%$  and ABC Logic enabled.

### Display Characteristics

|                                |                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------|
| Display Type                   | Full color, backlit, capacitive LCD touchscreen                                  |
| Display Resolution             | High definition (320 x 480)                                                      |
| Effective Viewing Area (W x H) | 48.96 x 73.44 mm (1.93 x 2.89")                                                  |
| Languages                      | English, French, Spanish, Italian, German, Danish, Dutch, Polish, and Portuguese |

### Mechanical

|                        |                                               |
|------------------------|-----------------------------------------------|
| Dimensions (H x W x D) | 131.5 x 85.5 x 19.0 mm (5.18 x 3.37 x 0.75")  |
| Shipping Weight        | 0.2 kg (0.44 lbs)                             |
| Enclosure Material     | ABS                                           |
| Enclosure Rating       | Plastic housing, UL94-V0                      |
| Installation           | Wall mounting through included mounting holes |

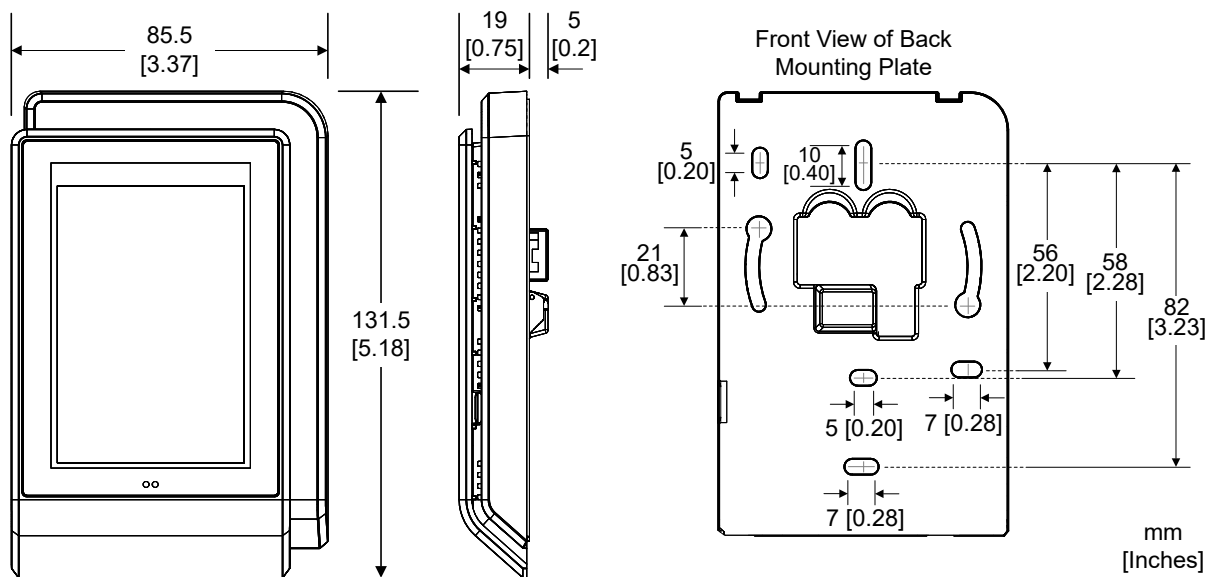
### Environmental

|                       |                               |
|-----------------------|-------------------------------|
| Operating Temperature | 0°C to 50°C (32°F to 122°F)   |
| Storage Temperature   | -20°C to 50°C (-4°F to 122°F) |
| Relative Humidity     | 0 to 90% Non-condensing       |

### Standards and Regulations

|                      |                                      |
|----------------------|--------------------------------------|
| CE Emission          | EN 61000-6-3: 2007 + A1: ed.2011     |
| CE Immunity          | EN 61000-6-1: 2007                   |
| CE Radio             | EN 300 328 V2.1.1 November 2016      |
| FCC                  | FCC rules part 15, subpart B class B |
| UL Listed (CDN & US) | UL916 Energy management equipment    |





Specifications subject to change without notice.

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