

CYLON

UCU Room Display

The **UCU Room Display** provides dedicated visually appealing Room Control display for use with UCU10FC/K Unitary Controller.

The display allows the user to view and adjust selected parameters within the controller to which it is connected.

While the display can be used for local control, the UCU10FC can be easily integrated into the UnitronUC32 system architecture.

It avoids the need for mains cabling between the display and the Fancoil equipment, by separating the display from the control function. All mains cabling is contained within the Fancoil equipment, while a lightweight serial connection joins the Display to the controller.



Features

- Local view and adjustment of specified room parameters
- Integrated space temperature sensor
- Mounts onto standard pattress box

Applications

- A numeric user interface that allows occupants to monitor and adjust comfort conditions within individual rooms and zones

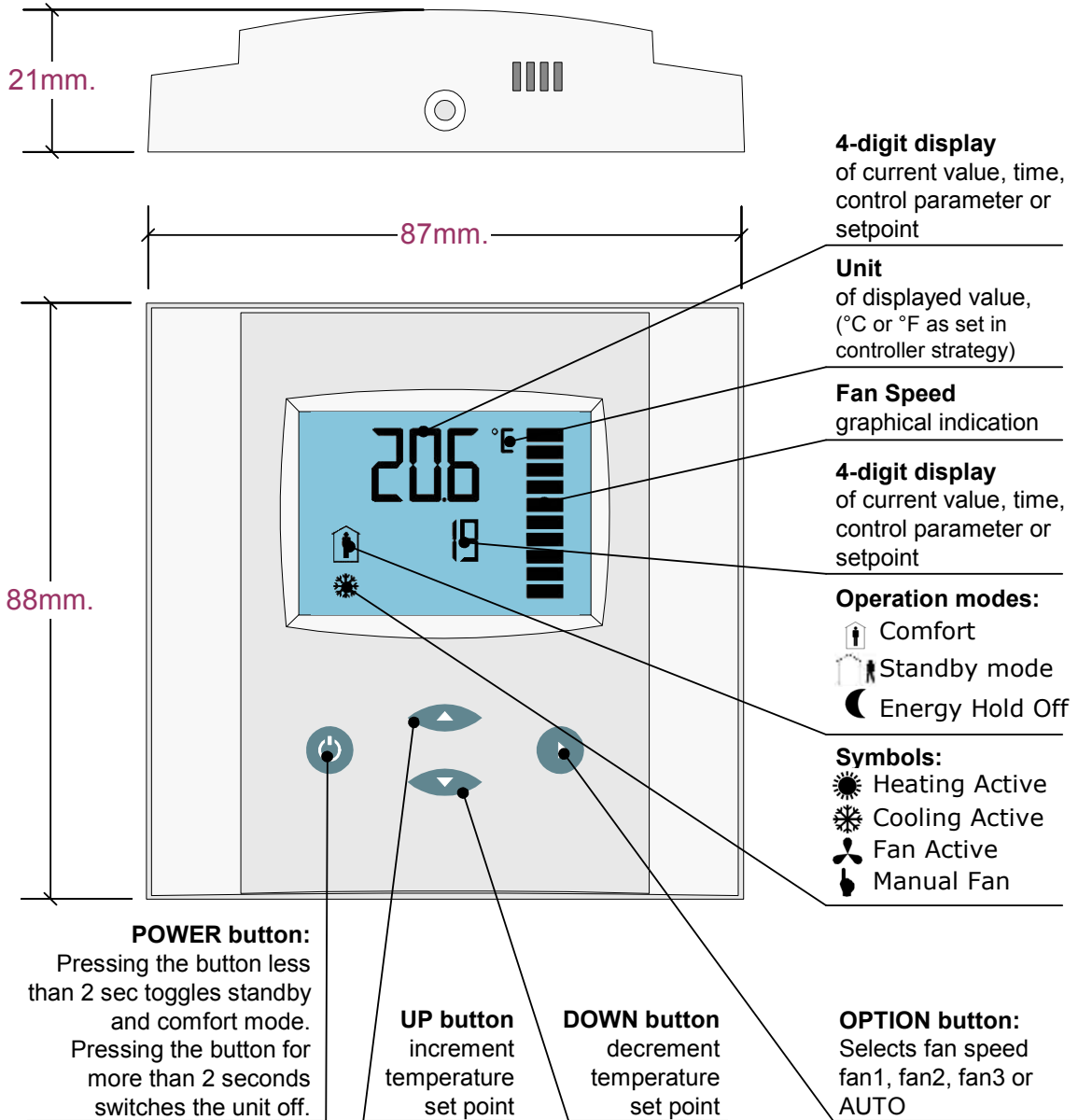
Operation Modes

- **Comfort:** The associated UCU10FC/K is operating within its occupied parameters. Temperature setpoint, fanspeed etc.
- **Standby:** The associated UCU10FC/K is operating within its unoccupied parameters. Temperature setpoint, fanspeed etc.
- **Energy Hold Off (EHO):** The associated UCU10FC/K is switched off, so that all enable and demand signals are off. Temperature and digital inputs are monitored in order that the UCU10FC/K can be activated in case of an alarm state.



Due to Cylon's policy of continuous improvements these specifications may be upgraded without notice.

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Error messages

- Err1:** Communication Error between Base and Terminal. Verify wiring. Make sure data line are not mixed up or interrupted.
- Err2:** Faulty temperature sensor: The temperature sensor may be damaged or not present.
- Err3:** General fan coil device error

Operation of the Room Display

Switching ON

The unit is switched on by pressing the POWER button while in EHO mode. It will start up in comfort mode.

Changing between COMFORT and STANDBY

Pressing the POWER button for less than 2 seconds toggles between STANDBY and COMFORT modes.

Switching OFF

Pressing the POWER button for more than 2 seconds, will switch the unit off. OFF and temperature will be displayed in the LCD.

Standard loop display

The large digits indicates the room temperature, the small digits display the set point and the vertical bar on the right side shows the active fan speed.

Changing of setpoints

Press UP/DOWN keys to change temperature setpoint. Changing of setpoints may be disabled and set point ranges can be limited.

Manual override of fan speeds

Manually change fan speeds by pressing the OPTION key for less than 3 seconds. Repeatedly pressing the OPTION key will toggle through these fan speed selections: Fan LOW > Fan MEDIUM > FAN HIGH > FAN ECO. Any other selection than FAN ECO will display the manual override sign.

Specifications

POWER SUPPLY

Operating voltage	10...28 V DC
Power consumption	Max 50mA
Electrical Connection	4 way screw connector

TEMPERATURE INPUT

Type	NTC 10kΩ @ 25°C (77°F)
Range	0...50 °C (32...122 °F)
Accuracy	0.2 K

COMMUNICATION

Communication type	RS485
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ENVIRONMENT

Operation	To IEC 721-3-3
Climatic Conditions	class 3 K5
Temperature	0...50 °C (32...122 °F)
Humidity	<95 % r.H. non-condensing
Transport & Storage	To IEC 721-3-2 and IEC 721-3-1
Climatic Conditions	class 3 K3 and class 1 K3
Temperature	-25...70 °C (-13...158 °F)
Humidity	<95 % r.H. non-condensing
Mechanical Conditions	class 2M2

STANDARDS

conform according to	EMC Standard 89/336/EEC EN 61 000-6-1/ EN 61 000-6-3 EMEI Standard 73/23/EEC
Product standards	
Automatic electrical controls for household and similar use	EN 60 730 –1
Special requirement on temperature dependent controls	EN 60 730 – 2 – 9
Pollution Class	Normal acc. to EN 60 730
Degree of Protection	IP30 to EN 60 529
Safety Class	III



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GENERAL

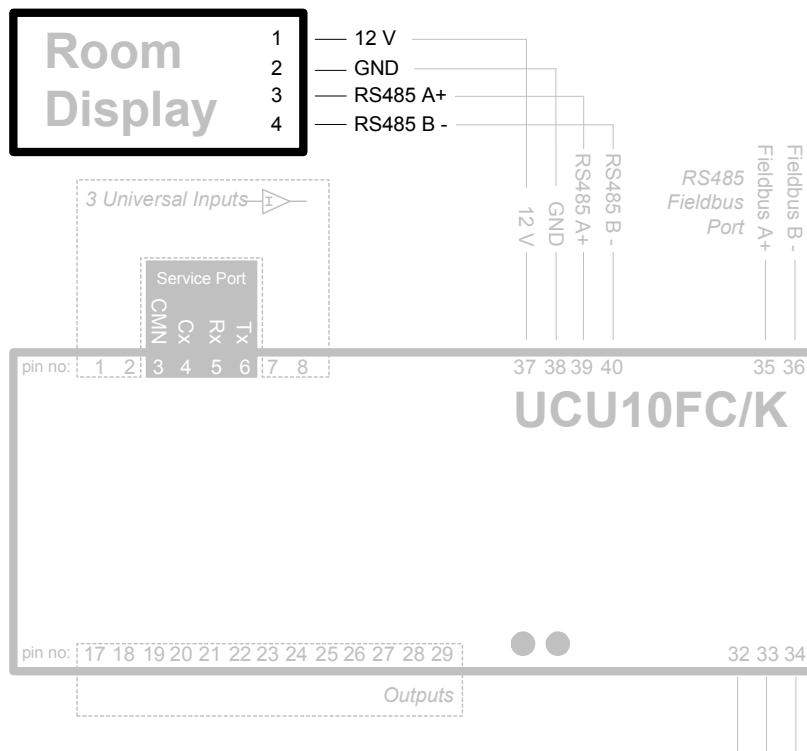
OPA Dimensions (H x W x D)	88 x 88 x 21 mm (3.5" x 3.5" x 0.8")
Housing Material	Fire proof ABS plastic
Mounting Plate	Zinc coated steel
Standard Colour	White RAL 9003
Weight (including package)	80 g (2.8 oz)

Installation

1. Install the mounting plate straight to the wall or the flush mounting box. Make sure that the nipple with the front holding screw is facing to the ground. Make sure the screw heads do not stand out more than 5 mm of the surface of the mounting plate.
2. Plug in the communication cable fitted with a male RJ11 connector to the RJ11 connector located on the backside of the terminal.
3. Slide the two latches located on the top of the front part into the hooks of the mounting plate.
4. Lower the front part until located flat on the wall and the mounting plate is not visible anymore. Make sure the connection cable does not get into the way.
5. Tighten the front holding screw to secure the front part to the mounting plate.

Cabling

Note: the Fancoil Controller with Room Display :: Display Module must be used in conjunction with UCU10FC/K Field Controller



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