

# irus PRE2000CU3CO2-BRU

## Thermostatic room control

with Integrated Air Quality Sensor and  
High Frequency Wireless Receiver Unit



Cleverly simple  
control of energy.



### Key features

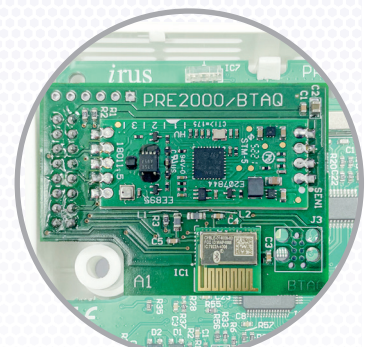
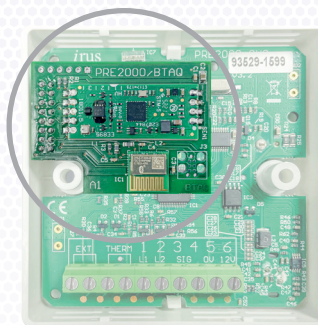
- High frequency secure wireless connection
- CO<sub>2</sub> concentration sensor
- Communicates wirelessly with HobSensus and other enabled devices
- Room temperature detection and control
- Integrated PIR detector with presence or absence detection
- Room humidity detection
- Room decibel noise meter
- Room lux light level detection
- Open window detection software
- LCD user screen
- User up and down controls
- Mains Borne Signalling technology
- PRE2000CU3 control unit utilizes SELV at 12VDC
- Remote access via internet connection to individual room nodes.
- Updateable software
- 5-year warranty

**The Prefect Irus CU3CO2-BRU Control unit is for use in rooms where air quality monitoring is desired and there are devices transmitting high frequency wireless signals.**

The control unit is a standard single gang plate size and is powered by a 12VDC supply from the PRE2000PU3 making the unit SELV, quickening installation and allowing for easier cable routing.

The Control unit has an LCD display for the occupant to view, the screen is fully programmable to your needs, for example the screen can display current set point, current temperature or simply a scale from minimum to maximum. The screen is also dimmable to 0% brightness to suit occupant requirements. Up and down buttons make the control unit simple to use, increasing or decreasing the temperature set point.

The CU3CO2-BRU functions in exactly the same way as the PRE2000CU3 but has the addition of a high frequency wireless receiver, this enables devices such as HobSensus, PipeSense and ShowerTime to send data to the control unit and then on to the Irus Portal. Hob power use, battery level indication, leak detection



and water wastage are just some examples of the information that can be gathered.

### Air quality monitoring

The integrated air quality module monitors CO<sub>2</sub> within the units vicinity. Using NDIR (Nondispersive infrared) technology with a measurement range of between 400 and 2900ppm (parts per million) and an accuracy of  $\pm(50\text{ppm} + 3\% \text{ of measured value})$ .

The concentration of CO<sub>2</sub> is determined by passing infrared light through a sample of the air and comparing absorption of light at two different wavelengths. The sensor combines this information with barometric pressure and temperature measurements to calculate CO<sub>2</sub> concentration.

Data collected by the Control Unit is displayed on the Irus Portal as an instantaneous figure and also on the time line to illustrate levels throughout the period.

Due to our policy of continuous improvement, we reserve the right to change specifications without notice.  
All information was correct at time of when this product file was produced - February 2023