ABB FusionAir Smart Sensor

Temperature Sensor
Relative Humidity Sensor
Volatile Organic Compound Sensor
CO_2 Sensor
Virus safe indoor environment functionality
Touch-free virus safe operation

DESCRIPTION

The ABB FusionAir Smart Sensor series provides a slim, compact, and visually appealing room control display with a high-definition capacitive touch backlit LCD display for use with ABB's Cylon® FLXeon and CB Line BACnet® field controllers. The intelligent temperature and humidity sensor allow users to view and adjust selected parameters within the field controller to which it is connected. Other sensing options available for integration with the CXpro^{HD} control strategy are CO_2 or Volatile Organic Compound (VOC) sensing, and contacts for the addition of Passive Infra-Red (PIR) occupancy detection.

The ABB FusionAir Smart Sensor display can be used to view control parameters and adjust HVAC, lighting and sunblind set points for the connected controller.

The ABB FusionAir Smart Sensor can be installed as part of a multi-sensor application for larger spaces or multiple room connection.

The system can also provide a Safe Indoor Environment against pandemic-causing viruses (such as Covid-19) through offering a patented* safe touch-free user interaction with the sensor which

TOUCH-FREE AND SAFE USER INTERFACE

Connecting to the sensor via a dedicated FusionAir Smart Phone mirroring App provides a remote interface to all FusionAir functions (including on FusionAir devices without an onboard LCD touchscreen), so that changes can be made without a need to touch the sensor. LED indication gives clear feedback of the safety status in a room under various circumstances considering a virus (such as the Covid-19) specific safety benchmarks and compliance on both indoor "air health and safety" and "physical distancing". The LED colors can be controlled directly by the strategy to indicate the status of a room quickly and easily. One popular option would include the following LED indicators:

Room Status	LED Color
Safe Room	Green
The system is under process to prepare a safe room	Blue
Unsafe Room	Red

APPLICATIONS

Provides temperature and humidity sensing for the following systems:
- Variable Air Volume (VAV) box
- Roof top unit
- Fan coil unit
- Heat pump
- Unit ventilator
- Air Handling Unit (AHU)
- Heating and Cooling Plant
- The controller accommodates available pre-engineered strategies or can be tailored to custom applications using CXpro^{HD} programming software.