



Product Information:

Dalitek's BZ-HU002S programmable room control box is designed to power the next generation of smart hotel rooms. This system can work as a stand-alone unit or networked with the building management software (BMS) for central control and monitoring.

The BZ-HU002s has been designed to interface with and control all types of modern hotel infrastructure including lighting, curtains, HVAC and TV. This room control system delivers reliable robust control that will ensure that your guests obtain the optimum experience during their stay.

Technical Parameters :

- **Supply:** AC 220V, $\pm 15\%$ 50HZ at 0.5A
- **Lighting Relay Output:** 16 channels outputs, maximum device load is 2A.
- **Dimming Output:** 3 x dimmed outputs (optional leading or trailing edge) at 2A.
- **Emergency Lighting (Porch Light) Output:** One channel (Emergency switch on automatically, Independent Null line)
- **Control Signal Input:** 37 dry contacts input (reset switch)
- **Housekeeping Input:** user defined dry contact input (4 groups)
- **LED Indicator Output:** 6 groups "D.N.D., M.U.R., Please wait, Service, On/Off, Night Lamp" . (Applies to 3V, 5V, 12V and optional common anode and common cathode LED)
- **A/C Control Output:** 5 channels, AC 220V at 2A; four-pipe fan coil control (high, mid, low, hot, cold)
- **Temperature and Humidity Sensor:** One group of temperature and humidity sensor interface.
- **Network Communication Interface:** two groups of RS485 network interface; one group TCP/IP interface; one group A/C panel communication interface.
- **CPU Board:** ARM 32 PINs
- **Socket AC Contactor Input:** One group 220V output and one group dry contact output
- **Load Output Terminals:** Phase line, load line (1 x 4mm² max conductor size)
- **Operating environment:** 0-50 Celsius ambient temperature, 0%-95% RH non-condensing
- **Dimension:** L376 x H436 x T100 mm
- **Weight:** 7KGS

Optional Items:

There are four optional items according to dimming phase and LED polarity:

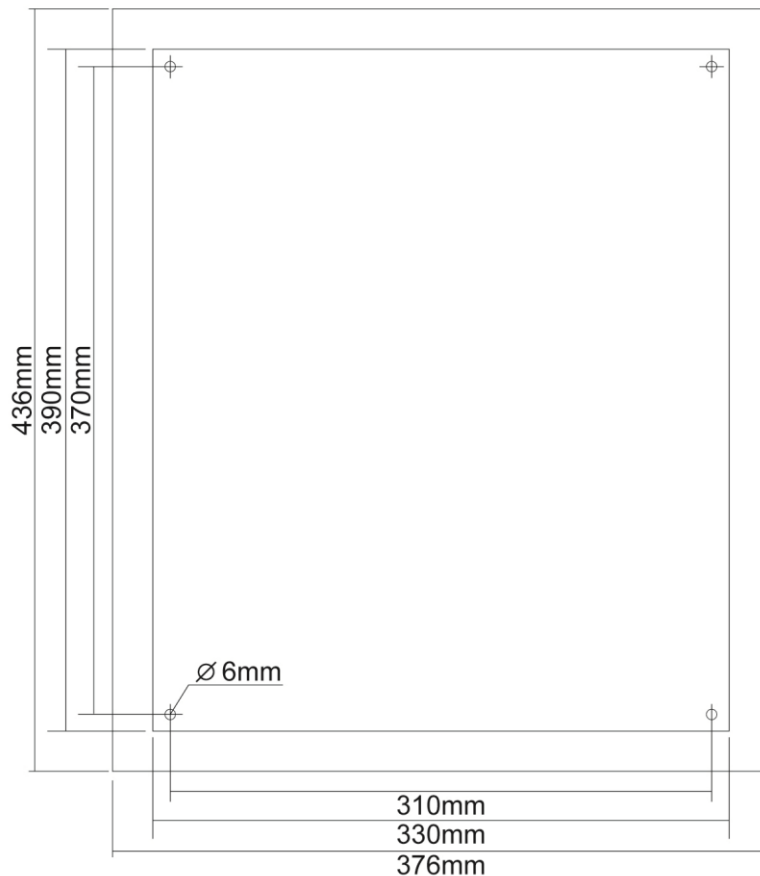
BZ-HU002S-A (3 Channels of leading edge dimming + LED common anode)

BZ-HU002S-B (3 Channels of trailing edge dimming + LED common anode)

BZ-HU002S-C (3 Channels of leading edge dimming + LED common cathode)

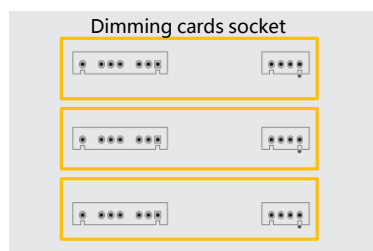
BZ-HU002S-D (3 Channels of trailing edge dimming + LED common cathode)

Mounting Dimension :

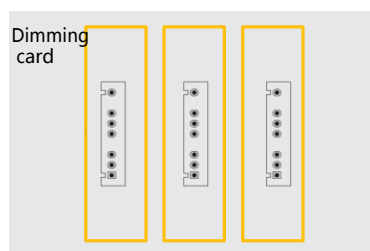


Remark:

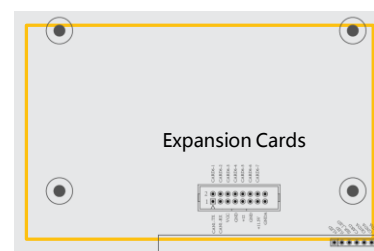
- **Dimming cards options:** three cards should be all leading edge dimming cards or all trailing edge dimming cards at the same time; mixture combination is not allowed. (Picture 1, 2)
- **Polarity options of LED:** optional common anode and common cathode
- **Expansion Cards:** an expandable card for 6 channels of relay or 3 channels of leading edge dimming. (Picture 3)
- **Thread hole:** Thread hole reserved at the bottom board for well organizing the threads inside the box. (Picture 4)
- **Humidity Sensor** (Picture 5)



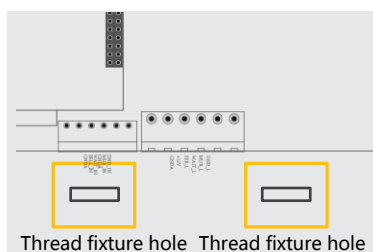
Picture 1



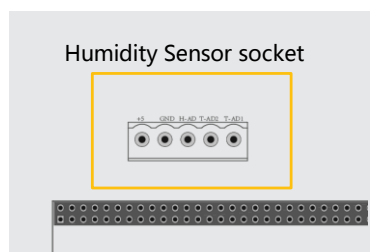
Picture 2



Picture 3



Picture 4



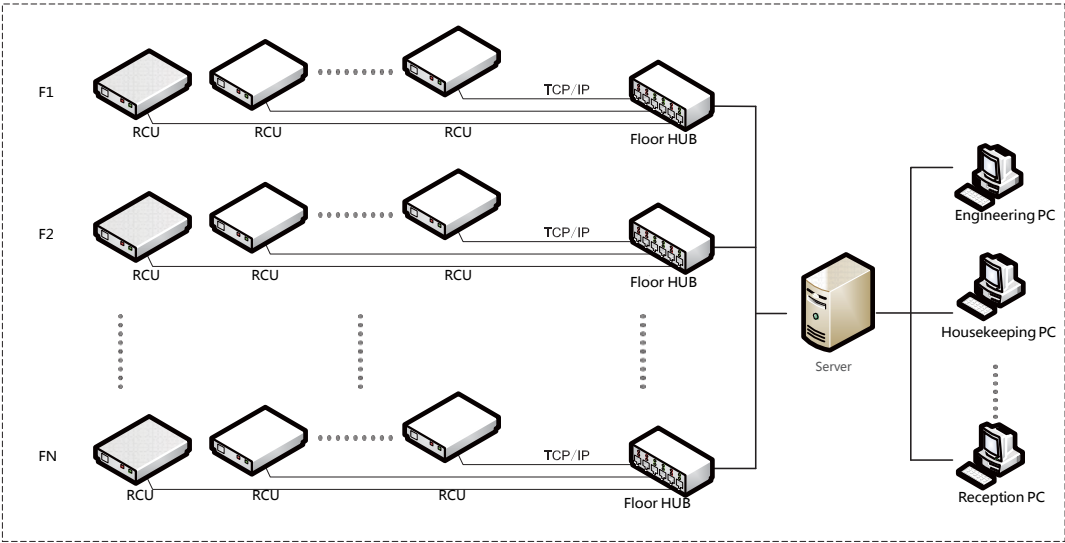
Picture 5

Expansion card model :

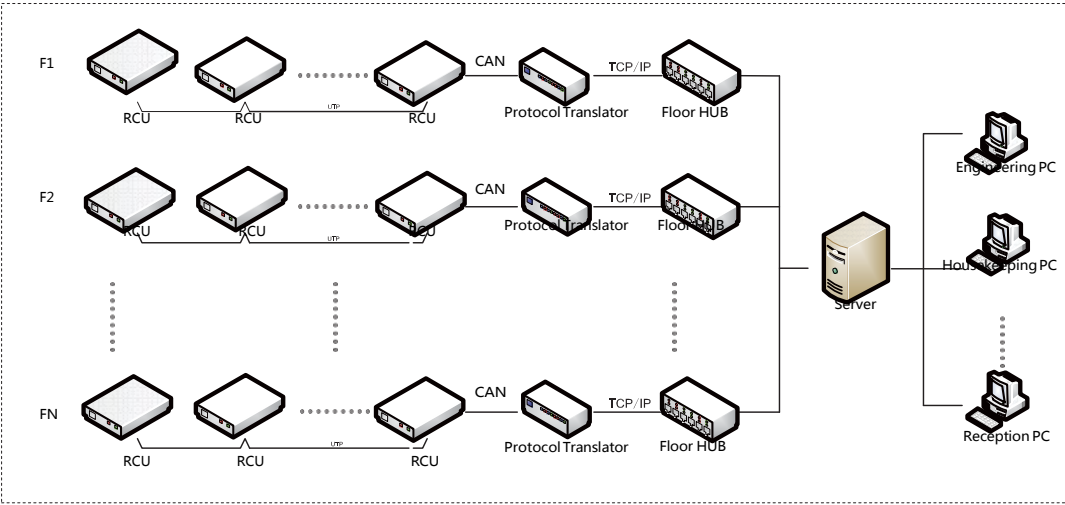
- HU002.1.6S 6 Channels relay output card
- HU002.1.3S 3 Channels leading edge dimming card
- HU002.1.4S 4 Channels 0-10V output card
- HU002.1.5S 5 Channels A/C output card



Network Structure Schematic Diagram



TCP/IP



RS485

BZ-HU002S Programmable Room Control Box



Wiring Diagram:

