PCD7.LR-TR40 and PCD7.LR-TR42 LCD and non-LCD Wall Modules

PRODUCT DESCRIPTION

The PCD7.LR-TR4x are 2-wire, non-polarity sensitive, Sylk communicating wall modules, which communicate with all PCD7.LRxx configurable BACnet room controllers and PCD7.LRxx-P5 programmable S-Bus room controllers that are enabled with Sylk.

The PCD7.LR-TR4x are simple temperature wall modules with basic setpoint, override, and fan options, and are designed for a broad range of applications. Models are available that include humidity and CO2 sensing.

⚠ Note

Refer to the forms listed below for more details.
- PP31-408_ENGxx_II_PCD7LR-TR4x-Sylk-bus
- PP31-401_ENGxx_ICI_PCD7LRxx-BACnet

FEATURES

The PCD7.LR-TR4x wall modules include:
- Two wire, polarity insensitive Sylk provides both power and communication to the device.
- Models available with display (PCD7.LR-TR42) or without display (PCD7.LR-TR40).
- Models available with or without built in humidity or CO2 sensors.

All PCD7.LR-TR42 display wall modules include:
- Override option
- Ability for tenant to change between °F and °C
- Ability to provide tenant either a relative „warmercooler" setpoint adjustment or absolute temperature setpoint adjustment
- Fan speed options: Auto-On, Auto-Off-On, Auto-Off-Low-Med-High
- For PCD7.LRxx configurable BACnet room controllers it is possible to configure over RoomUp the following settings:
  - Switching between °F and °C
  - Allow/prohibit fanspeed selection
  - Allow/prohibit override selection
  - Numerical or Graphical setpoint adjustment
  - Allow/prohibit of cool/heat/auto selection
  - Choosing which sensor or setpoint value will be displayed
  - Choosing the sensor or setpoint value to be shown in the Home Screen, or choose to scroll through sensor and setpoint values
  - Choosing between English and International icon display
- PCD7.LRxx-P5 programmable S-Bus room controllers has the configuration to be made via the PG5 tool.

SPECIFICATIONS

Models:

See Table 1 for a list of models with description.

Environmental Ratings:

- Operating Temperature:
  - Operating Range: 0 to 52 °C
  - Setpoint Limit: 10 to 65 °C
- Shipping Temperature: –40 to 65,5 °C
- Relative Humidity: 5% to 95% non-condensing

Approvals: CE

Accuracy:

- Temperature: ± 0,2 °C at 25 °C
- Humidity: ±3% RHfrom 20 to 80% RH
- CO2: ±(30 ppm +3% of measured value).
  - Calibrated at the factory.
  - Uses automatic background calibration. No calibration required for the life of the product.
  - Meets CEC Title 24 requirement of ±75 ppm accuracy at 600 ppm and 1000 ppm ambient levels.
  - For proper CO_2 operation, install only in spaces that see at least 4 hours of continuous unoccupied time per week.

Table 1. Part Descriptions

Part number	Description	Sensors	Communication
PCD7.LR-TR40	Wall Module, Temp only, Sylk	Temperature	Sylk
PCD7.LR-TR40-H	Wall Module, Temp and Humidity, Sylk	Temp, Humidity	Sylk
PCD7.LR-TR40-CO2	Wall Module, Temp and CO2, Sylk	Temp, CO2	Sylk
PCD7.LR-TR40-H-CO2	Wall Module, Temp, Humdity, CO2, Sylk	Temp, Hum, CO2	Sylk
PCD7.LR-TR42	LCD Wall Module, Temp only, Sylk	Temperature	Sylk
PCD7.LR-TR42-H	LCD Wall Module, Temp and Humidity, Sylk	Temp, Humidity	Sylk
PCD7.LR-TR42-CO2	LCD Wall Module, Temp and CO2, Sylk	Temp, CO2	Sylk
PCD7.LR-TR42-H-CO2	LCD Wall Module, Temp, Humidity, CO2, Sylk	Temp, Hum, CO2	Sylk

Communications

The wall modules use the two wire polarity insensitive Sylk for communication with the programmable room controller.

Compatibility

To use the PCD7.LR-TR4x models with PCD7.LRxx configurable BACnet room controllers, PCD 7.LRxx need in minimum Firmware 1.00.3 or higher.

Setting the Wall Module Address Dial

Every Sylk device wired to a single controller must have a unique address. The address on the wall module must match the address in the control logic.

Sylk Device Capacity

For the PCD7. LRxx configurable BACnet room controllers it can only be connect 1 wall module to the controller.

For the PCD7. LRxx-P5 programmable S-Bus room controller please refer to the manual "27-653 ENGxx PCD7.LRxx-P5".

Trademark Information

BACnet® is a trademark of BACnet International.

BACnet™ is a trademark of ASHRAE Inc.

Sylk® is a trademark of Honeywell International Inc.