

Solution Capabilities Overview

LCBS Connect™

LCBS Connect™ solution consists of a technology platform that includes three key components.

- Cloud based data storage and analytics.
- Hardware platform that enables precise control of constant volume air handling units.
- 21st Century user interface experience via smart phone, tablet, and personal computers that permits users to get data they need, when they need it.



TECHNICAL HIGHLIGHTS

- **Sensor accuracy:** Humidity 5% range from 10–95%, Temperature 0–2°F across range from -40–150°F, Calculated Enthalpy -3 to +3 BTU/LB range from 20 BTU/LB to 36 BTU/LB.
- **Warranty:** Five (5) Years for all system components including controller, wall module, sensors, variable frequency drives.
- **LCBS Controllers** feature “Syk” Sensor Bus. Temperature, humidity, and carbon dioxide sensors can be connected to this smart sensor bus.
- **Data, parameters, setpoints, and sensor values** can be viewed and changed through LCBS Connect Wall Module and through LCBS Connect Cloud Remote Interface.
- **Operating modes** (heating, cooling, economizer, automatic, off, occupied, standby, unoccupied) can be initiated through the LCBS Connect Wall Module and LCBS Connect Cloud Remote Interface.
- **Analytics,** reports and alerts can be viewed through LCBS Connect Cloud Remote Interface and sent to specified recipients via SMS or e-mail.
- **Remote User Interface** employs HTML5 markup language. The user interface can be hosted on any remote device including personal computers, tablets, and smart phones.

APPLICATION HIGHLIGHTS

Controls single- or two-speed air to air heat pumps and up to two stages of auxiliary heating; up to three stages heat, three stages cooling control for conventional rooftop units and split systems. All parameters described below can be altered through LCBS wall module or LCBS remote interface.

Title 24 and IECC Compliance. LCBS Connect is compliant to Title 24 2016 and IECC guidelines.

Ventilation, Economizer Control, Demand Controlled Ventilation. Multiple ASHRAE compliant economizer strategies are supported. Additionally, IAQ, DCV CO₂ air quality control is offered to the economizer strategy. Honeywell Jade economizer functions are included in the LCBS Connect control system.

Flexible Fan Control. Applier can designate up to six fan speeds associated with a specific control strategy, resulting in energy savings for building owner or customer. Two speed discrete relay control. Two- to six- speed fan control through variable frequency drive. Control of ECM motors supported.

Temperature Control. Six heat and cool set points including: (1) Occupied heat (2) Occupied cool (3) Standby heat (4) Standby cool (5) Unoccupied heat and (6) Unoccupied cool.

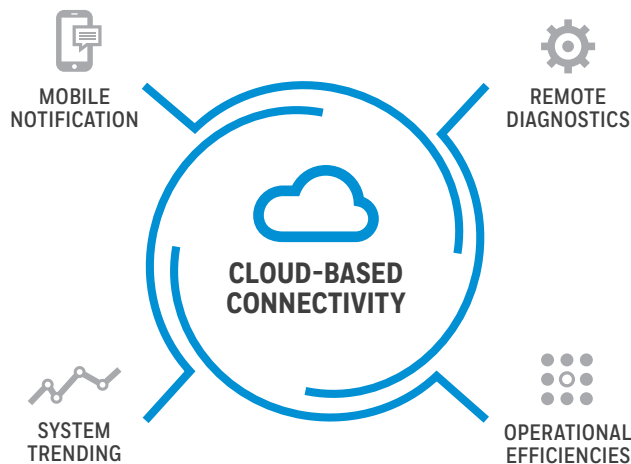
Time of Day, Holiday, Special Schedules. Controller supports 2 occupied/unoccupied periods per day. Scheduled occupancy, occupancy bypass, and bypass supported. Vacation scheduling is supported.

Adaptive Intelligent Recovery. Ensures occupant comfort when they arrive at building. Parameters can be adjusted to account for individual systems, climate differences, and equipment capacity.

Heat Pump “Comfort” and “Energy Saving” Operation Option. Heat pump auxiliary heat recovery is provided so heat pumps run in an energy efficient manner. Comfort can be selected over energy savings as an option.

Dehumidification. Staged reheat control that cycles heating stages in response to a humidity set point. Cooling is locked on as heating is cycled.

Accessory loop control. The LCBS Connect system allows “custom” loops to be defined. Select control sensor, method of control (staged, modulating), PID parameters, and minimum operating parameters.



For more information
buildingcontrols.honeywell.com

Home and Building Technologies
 1985 Douglas Drive North
 Golden Valley, MN 55422