

# Room Solutions With True Openness!



▶ EXCEL 10 ◀



# Room Solutions...

## Honeywell's Excel 10 system

gives room and zone control a new dimension. By using LONWORKS® technology, the open communication standard, we combine components such as sunblind controls, lighting and access control with our HVAC control system. As a result, you get more comfort while at the same time saving energy, you keep your building flexible right from the start and you simply save a lot of money.

## Get more comfort while saving energy

Interoperation between our HVAC systems and other applications brings new functionality to room control. Occupancy sensors are used to control heating or cooling while at the same time closing or opening sunblinds and switching on or off lights and other devices. Sharing time programs and energy management strategies across different applications brings real comfort for your building and reduces overall energy consumption.

Fan Coil Unit

Variable Air Volume

Rooftop Unit

Cold Ceiling

Radiator

Ventilation Unit

Underfloor Heating/Cooling

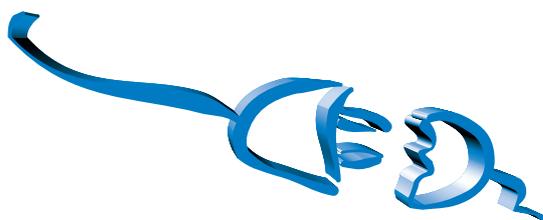
Induction Units

## Stay flexible

Based on LONWORKS® technology, the Excel 10 controllers interoperate with other LONMARK compliant products on a common bus system, keeping your building flexible. You can start small and add further devices and functions later - as your building structure changes or as your needs grow.

## Save money

The simple two wire bus system for all components saves you money right from the installation. When expanding your system or adding new functionality, changes are software-implemented instead of requiring extensive rewiring, and the interoperation of different applications and optional supervisory functions of our system minimise energy consumption and save you money - every day.



# ...With True Openness

## Now...

Honeywell is committed to supporting your requirements for Interoperability by driving standardisation within the building control industry. So committed in fact, that Honeywell has teamed up with the Echelon® Corporation, developer of the industry's most forward-looking and open communications standard, LONWORKS. Carrying the LONMARK guarantees that products interoperate with other LONMARK compliant devices.

## ... and in the future

LONWORKS technology is supported by major suppliers in the HVAC and other industries, assuring that future products can be seamlessly integrated into existing installations. At any time you can add the products from any manufacturer that best fit your needs. Consequently, our open system provides you with the best solution through the total life-cycle of your building.



## Honeywell Makes "Openness" Come Alive

What this brochure shows you about Excel 10 and LONWORKS is not a vision. It is reality:

Honeywell has installed tens of thousands of products using LONWORKS technology since 1995.

That's what we call:

*Comfort from Experience.*

## Excel 10 products based on LONWORKS technology offer you:

- Improved functionality and comfort through cross-industry interoperation
- Reduced energy cost through interoperation of different applications
- Low-cost installation through commonly used simple wiring
- Utmost installation flexibility to meet changing automation needs
- Reduced expenditures for maintenance and training through commonly used operator interfaces
- Freedom of choice to select the best products for your building requirements - now and in the future.



# Excel 10 system

**Honeywell's Excel 10 system** brings you sophisticated DDC energy management technology to meet your room and zone control needs. The Excel 10 product family offers control for a variety of applications able to interoperate with other products bearing the LONMARK.

## Optimum Integration

Excel 10 controllers can be operated either as stand-alone solutions or, by taking advantage of LONWORKS technology, combined with other manufacturers' products. All devices can be seamlessly integrated into Honeywell's EXCEL 5000 Building Management System, performing supervisory functions to ensure consistent and reliable operation of primary plant, room control and third-party products.

## Easy to Install

Being preconfigured, Excel 10 controllers are fast and easy to install. Their master-slave capability is ideal for partitioned buildings. All controllers use a standard line of wall-mounted setpoint/sensor modules. One or more controllers can share window and occupancy sensors via the network.

## Flexible Wiring

All Excel 10 controllers communicate via the LONWORKS standard, offer LONMARK profiles for true openness, and support standard Free Topology Transceiver (FTT) technology. This approach to wiring allows you to choose freely among ring, star and branch network topologies.

## Simple to Configure

Excel 10 controllers are very simple to configure thanks to E-Vision, Honeywell's proprietary software tool for optimally configuring and installing controllers in multiple rooms.

## Daily Energy Savings

Our extensive expertise in building management has let us incorporate many features to save you energy – and thus money – day after day. Optimized startup functions wait as long as possible before a room or zone is occupied. Standby setpoints save more energy when an area is temporarily unoccupied. Demand-load-shedding functions support peak demand management, and terminal load reporting permits central demand-based energy management.

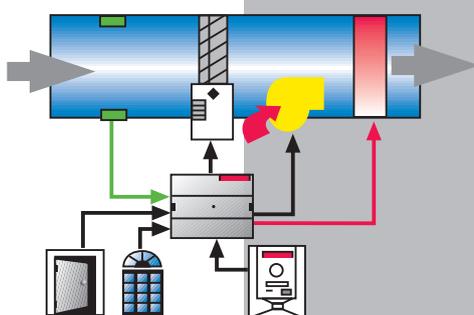
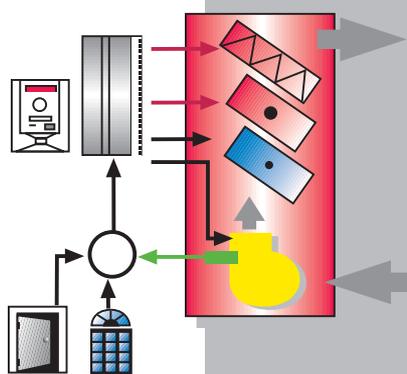
## Low-Cost Maintenance

The EXCEL 5000 system even keeps watch over your building when you are far away. It will send you alarm or status information by fax or voice. You can be alerted by pager to check on an application. Or you can take advantage of our PC-based remote monitoring centers for your building.

All configuration settings of the Excel 10 system can be changed via the LONWORKS network, eliminating the need to rewire it. Master/slave operation can be changed in the same way.

## User-Friendly Room Sensors

The Excel 10 system offers a range of attractive room sensors, which all have the same 'look and feel' but meet different occupant needs. One useful feature is a local bypass button that can be used to initiate occupancy conditions during normally unoccupied periods.



Fan Coil Controller

### Fan Coil Unit Controller

Fully integrated configurable fan coil unit controller.

- ◆ LONMARK functional profile #8020 with FTT
- ◆ Configurable heating, cooling and fan sequences
- ◆ Optional electric heat relay
- ◆ Synchronous operation of more than one controller



### Hydronic Controller

Controller for radiators, induction units, and fan coil units with manual fan switch

- ◆ LONMARK functional profile #8020 with FTT
- ◆ Configurable heating and cooling sequences
- ◆ Wall mounting or unit mounting

Hydronic Controller



### Chilled Ceiling Controller

Controller for chilled ceiling, chilled beam, radiators, induction units, and fan coil units with manual switch

- ◆ LONMARK functional profile #8020 with FTT
- ◆ Dew point temperature calculation and protection
- ◆ Configurable heating and cooling sequences
- ◆ Wall mounting or unit mounting

Chilled Ceiling Controller



### Room Sensors

A wide range of room sensors for different needs.

- ◆ Optional digital display module for direct connection to LONWORKS network
- ◆ Choice of relative ( $\pm 5K$ ) or absolute ( $^{\circ}C$  or  $^{\circ}F$ ) setpoint
- ◆ Central setpoint override, limit and adjustment
- ◆ Fan switching override

Room Sensors



To get products that work together, look for the LONMARK.

All Excel 10 controllers bear the LONMARK.

EXCEL

#### Variable Air Volume Controller



#### Variable Air Volume Controller

Packaged VAV controller with additional room monitoring functions.

- ◆ LONMARK functional profile #8010 with FTT
- ◆ Inputs available for window and occupancy sensing
- ◆ Outputs available for parallel or series fan switching
- ◆ For supply and return air applications, for single and dual duct applications
- ◆ Synchronous operation of more than one controller

#### Smart VAV Controller



#### Smart VAV Controller

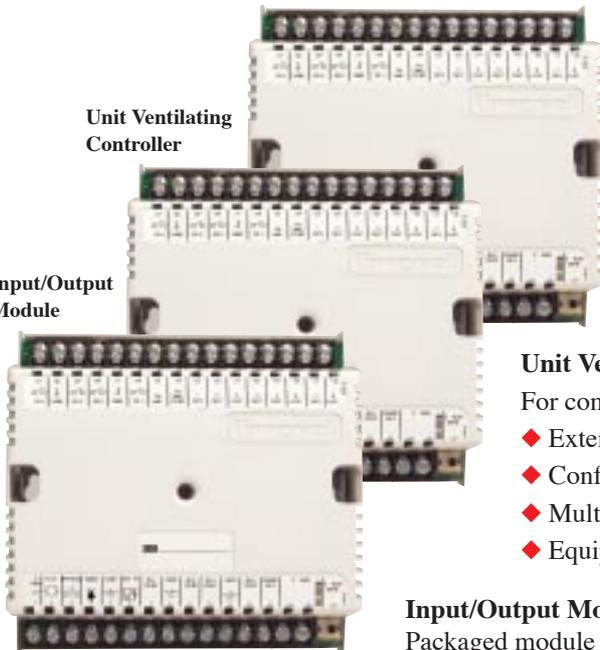
The Smart VAV space/temperature controller has a fully integrated rotary damper actuator.

- ◆ LONMARK functional profile #8010 with FTT
- ◆ Fully integrated controller for easy mounting, removal and replacement
- ◆ For supply and return air applications, for single and dual duct applications
- ◆ Synchronous operation of more than one controller

#### Constant Volume Air Handling Unit Controller

#### Unit Ventilating Controller

#### Input/Output Module



#### Constant Volume Air Handling Unit Controller

For controlling simple roof mounted air-handling units.

- ◆ LONMARK functional profile #8030 with FTT
- ◆ Extended operating temperature range (-40°C to 65°C) for rooftop environments
- ◆ Synchronous operation of more than one controller
- ◆ Configurable heating, cooling and damper sequences
- ◆ Configurable heat pump control

#### Unit Ventilating Controller

For controlling simple ventilation units.

- ◆ Extended operating temperature range (-40°C to 65°C)
- ◆ Configurable heating, cooling and damper sequences
- ◆ Multiple speed control
- ◆ Equipment frost protection

#### Input/Output Module

Packaged module with inputs and outputs for monitoring of control functions.

- ◆ Hardware capability of 6 AI, 4 DI, 8 DO
- ◆ Inputs available for monitoring and binding to LONWORKS nodes
- ◆ Outputs available for control functions via the LONWORKS network

#### Zone Manager



#### Zone Manager

The Zone Manager provides flexible control strategies for the LONWORKS subsystem.

- ◆ Standard LONWORKS FTT transceiver
- ◆ Programmable control, automation and energy management strategies
- ◆ Time program for LONMARK products
- ◆ Local operator interface for use as a local maintenance panel

# Excel 10 system

## Operator Panel

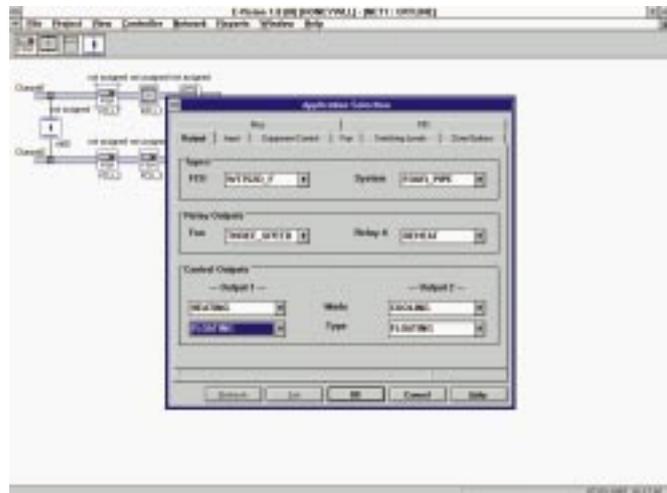
XI 582, the standard EXCEL 5000 system operator panel can be used with the Excel 10 Zone Manager to provide you with local operator capability.



- ◆ Operator panel for small systems
- ◆ Point access and display of user addresses through plain language
- ◆ Access and change of time programs
- ◆ Manual override of room automation equipment

## E-Vision Configuration Tool

The new E-Vision Configuration Tool helps you to optimally configure and install LONWORKS networks in building automation systems. It lends itself to a wide range of system types, guiding you through configuration and integration of mixed third-party and Excel 10 systems. Used together with Honeywell's standard CARE configuration tool, E-Vision makes sure the LONWORKS network is tightly linked with the EXCEL 5000 system.



- ◆ Graphical tool developed to run under Microsoft Windows®
- ◆ Based on LONWORKS installation tool (industry standard)
- ◆ Intuitive screens for configuring Excel 10 controllers
- ◆ Full range of repeat and copy functions to help you create multiple room installations in buildings
- ◆ Includes plain language user addresses for consistent display on Honeywell's Building Supervisor and XI582 operating terminal
- ◆ Full remote offline configuration prior to on-site installation
- ◆ Full online functions for system monitoring and testing
- ◆ Runs on desktop and laptop PCs

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