

Metasys® Field Controllers LONWORKS® Compatible

AD-IRC

Integrated Room Control Solution

The Integrated Room Control Solution provides the control of the heating, cooling, lighting and sunblinds within an occupied space, such as an office or small conference room, in one coordinated control system with a single point of control interface for the occupant.

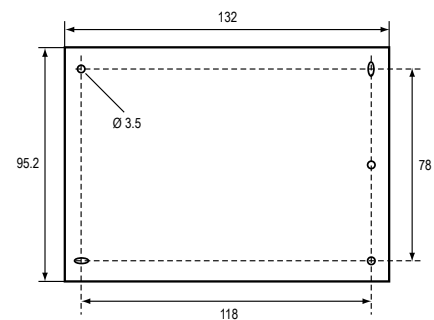
The AD-IRC Integrated Room Controller is a LONWORKS® network compatible device that is the master device in the system. The AD-IRC provides direct digital control of a fan coil unit with heating and/or cooling coils, an electric heater and a three-speed fan. Alternatively it can control a chilled ceiling and heating radiators. It is mounted within the fan coil unit or other protective enclosure.

One or two zones of lighting in the space and optionally sunblinds are controlled by AD-IRL, AD-IRS and AD-ILS slave modules that can be mounted directly in the ceiling void. The space comfort set point, occupancy mode and fan speed may be adjusted from the AD-IRM Integrated Room Command Module. From the same module the occupant can switch and adjust the lighting level and operate the sunblinds.

The controller complies with the LONMARK® interoperability guidelines for sharing data with other network sensors and devices. Operating data can be monitored and controlled from a LONWORKS compatible supervisory system, including the Metasys® NCM Network Control Module and NAE Network Automation Engine that connect the integrated room control system into a facility-wide building management network.

Features

- Single point of control for environmental comfort in the room for the occupants – temperature, lighting, sunblinds
- Attractively styled wall-mounted room command module with back-lit digital display and control buttons for lighting and sunblind
- Modular configuration of hardware for HVAC, lighting and sunblind control with simple serial bus inter-connection
- Each control module is separately powered by 230 VAC
- HVAC controller for FCU or chilled ceiling
 - Relay outputs at 230 VAC 3A for direct fan control
 - Triac outputs at 230 VAC or analog output at 0 – 10 VDC for heating and cooling valve control
 - Relay output for electric heater control
- Configuration and commissioning using any LONMARK compatible LONWORKS network or commissioning tool
- Multiple modes of operation for various occupancy conditions
- Single point of interface from integrated room control system to LONWORKS network
- LONMARK Space Comfort Controller Profile



Dimensions in mm

AD-IRL
Integrated Lighting
Control Module



AD-ILS
Integrated Lighting and Sunblind
Control Module



IRM Integrated Room Module
(80 mm x 120 mm)



AD-IRC

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Ordering Codes	Description
Integrated Room Control Solution Components	
AD-IRC4205-1	IRC HVAC Controller with LonWorks® Interface and Serial Bus I/F (to IRC Lighting, Sunblind and Room Command Modules), 230 VAC Power Supply, 2 x Analog Outputs (0 - 10 V) for Heating/Cooling, Relay Output for Electric Heater (1.5KW), Relay Outputs for 3-speed Fan (3A)
AD-IRC4245-1	IRC HVAC Controller with LonWorks® Interface and Serial Bus I/F (to IRC Lighting, Sunblind and Room Command Modules), 230 VAC Power Supply, 4 x Triac Outputs (230 VAC PWM or INC/DEC) for Heating/Cooling, Relay Output for Electric Heater (1.5KW), Relay Outputs for 3-speed Fan (3A)
AD-ILS1035-0	IRC Lighting and Sunblind Module with Serial Bus I/F (to HVAC Controller), 230 VAC Power Supply, 2 x Lighting On/Off and 1 x Sunblind Outputs (230 VAC)
AD-IRL1025-0	IRC Lighting Module with Serial Bus I/F (to HVAC Controller), 230 VAC Power Supply, 2 x Lighting On/Off Outputs (230 VAC)
AD-IRL2025-0	IRC Lighting Module with Serial Bus I/F (to HVAC Controller), 230 VAC Power Supply, 2 x Lighting Outputs (230 VAC) with Dimming Control
AD-IRS1035-0	IRC Sunblind Module with Serial Bus I/F (to HVAC Controller), 230 VAC Power Supply, 3 x Sunblind Outputs (230 VAC)
AD-IRM1005-0	Integrated Room Command Module with Serial Bus I/F (to HVAC Controller) - HVAC only (80 mm x 80 mm)
AD-IRM1015-0	Integrated Room Command Module with Serial Bus I/F (to HVAC Controller) - 2 Lighting Control Buttons (80 mm x 120 mm)
AD-IRM1025-0	Integrated Room Command Module with Serial Bus I/F (to HVAC Controller) - 2 x Lighting + 1 x Sunblind Control Buttons (80 mm x 120 mm)
AD-IRM1035-0	Integrated Room Command Module with Serial Bus I/F (to HVAC Controller) - 2 Lighting + 2 x Sunblind Control Buttons (80 mm x 120 mm)
Integrated Room Control Solution Accessories	
TE-9100-8502	Unit Mount NTC 10k Temperature Sensor
AD-IRL1025CK-0	Connector Kit for AD-IRL1025-0 (Power + 2 x Lighting Circuit)
AD-IRL2025CK-0	Connector Kit for AD-IRL2025-0 (Power + 2 x Lighting/Dimming Circuit)
AD-IRS1035CK-0	Connector Kit for AD-IRS1035-0 (Power + 3 x Sunblind Circuit)
AD-ILS1035CK-0	Connector Kit for AD-ILS1035-0 (Power + 2 x Lighting + Sunblind Circuit)
AD-IRCBL911S-0	Serial bus cable RJ9 to RJ11 - Length 30 cm
AD-IRCBL911L-0	Serial bus cable RJ9 to RJ11 - Length 6 m
AD-IRCBL99S-0	Serial bus cable RJ9 to RJ9 - Length 30 cm
AD-IRCBL99L-0	Serial bus cable RJ9 to RJ9 - Length 6 m
AD-IRCKJ09-0	Connectors RJ9 - Pack of 50
AD-IRCKJ11-0	Connectors RJ11 - Pack of 50