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Johnson Controls

Integrated Room Control

AD-IRC 2nd Edition
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.
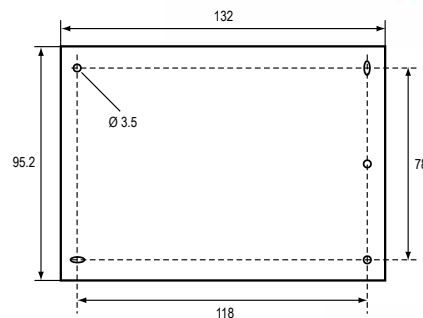The AD-IRC Integrated Room Controller is a LONWORKS® network compatible device that is the master device in the system.
The AD-IRC provides direct digital control of terminal unit applications with heating and/or cooling coils, an electric heater, air quality devices and a three-speed or variable speed fan. These applications include radiators, close control units, fan coil units, unit ventilators and chilled beams or chilled ceiling beam installations. It is mounted within the 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 wide range of room sensor modules with options for a digital display and IR remote command. From the RJ connected digital modules 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, air quality, lighting and sunblinds
- Attractively styled wall-mounted room command module with back-lit digital display and control buttons for HVAC, lighting and sunblind
- Modular configuration of hardware for HVAC, lighting and sunblind control with simple serial bus interconnection
  - Automatic daylight control
  - DALI Bus Add-On module
- Each control module is separately powered by 230 VAC
- HVAC controller for FCU or chilled ceiling
- Variable speed fan control
- Indoor air quality control
- Configuration and commissioning using any LONMARK compatible LONWORKS network or commissioning tool
- All configuration parameters in LONMARK network profile
- 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
- LONWORKS network connection to Metasys network controller
- Standalone operation with default parameters
- Nonvolatile memory (Flash and E^{2}PROM)

132
Ø 3.5
95.2
78
118

Dimensions in mm

AD-IRL
Integrated Lighting control module

AD-ILS
Integrated Lighting and Sunblind

AD-IPL
AD-RCL
AD-LCD
AD-IRM
AD-RIR
TM-2160

AD-IRC Room Command Accessories

167

The European Products Catalogue 2015

Integrated Room Control
AD-IRC 2nd Edition

Ordering Codes	Description
Integrated Room Controllers	
AD-IRC4205-2	IRC HVAC Controller 2nd Edition with LonWorks Interface and Serial Bus I/F 230VAC Power Supply, 4 x 0-10VDC for Heating/Cooling Valves or Variable Fan Speed or Fresh Air Damper, Relay outputs for Electric Heater (2kW), Relay Outputs for 3-speed fan control (3A)
AD-IRC4245-2	IRC HVAC Controller 2nd Edition with LonWorks Interface and Serial Bus I/F 230VAC Power Supply, 2 x 0-10 VDC for Heating/Cooling Valves or Variable Fan Speed or Fresh Air Damper, 2 x Triac for Heating/Cooling Valves, Outputs for Relay outputs for Electric Heater (2kW), Relay Outputs for 3-speed fan control (3A)
Add-On Modules	
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-DAL1045-0	IRC DALI Bus Lighting Module with Serial Bus I/F, 230Vac Power Supply, 4 x Lighting Groups, 16 x Lamps with DALI Ballasts
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-IRS1035-0	IRC sunblind module with serial bus I/F (to HVAC controller), 230 VAC power supply, 3 x sunblind outputs (230 VAC)
Room Command Modules with Temperature Sensors	
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)
AD-LCD1005-0	Digital room sensor device with LCD screen with Serial Bus I/F - HVAC + 2 Lighting Zones + 2 Sunblind Zones
AD-RCL1005-0	Hand-held IR Remote Command - HVAC + 2 Lighting Zones + 2 Sunblind Zones
Room Module with Temperature Sensors	
TM-2140-0000	Room module, NTC 10K sensor
TM-2150-0000	Room module, NTC 10K sensor, occupancy button
TM-2160-0000	Room module, NTC 10K sensor, setpoint dial 12 – 28 °C, occupancy button
TM-2160-0002	Room module, NTC 10K sensor, setpoint dial 12 – 28 °C, 3-speed fan override, occupancy button
TM-2160-0005	Room module, NTC 10K sensor, setpoint dial +/-, occupancy button
TM-2160-0007	Room module, NTC 10K sensor, setpoint dial +/-, 3-speed fan override, occupancy button
TM-2190-0000	Room module, NTC 10K sensor, setpoint dial 12 – 28 °C
Accessories	
AD-IPL1005-0	Multi-sensor with integrated IR Receiver with Serial Bus I/F
AD-RIR1005-0	Transparent IR Receiver with Serial Bus I/F
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

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