

WARNING! Install all equipment in accordance with the National Electric Code and in a manner acceptable to the local authority having jurisdiction. Read these instructions and the ACM Installation & Operations Guide (LT-ACMICG) carefully before installing equipment. Failure to follow all instructions may result in equipment damage or a hazardous condition.

ATTENTIONI installez tout le matériel en conformité avec le Code national de l'électricité et d'une manière acceptable pour l'autorité localecompétente. Lisez ces instructions et le guide d'installation et fonctionnement de l'ACM (LT-ACMIOG) avant l'installation du matériel. Le non respect des instructions peut entraîner desdes dommages matériels ou une situation dangereuse.

Overview

ACMs are intended for indoor applications. Ensure that the installation location is dry, away from direct sunlight, and free from excessive dust, vibration, and electrical interference. The ambient temperature range is -4 *F (-20 °C) to 149 °F (65 °C).

Mounting

The ACM mounts on a standard DIN rail in one of two ways:

- vertically, with the connections on the right and left sides of the unit.
- horizontally, with the connections on the top and bottom of the unit.

The controller can also be screw-mounted using the four key-holes located at each corner, accessible under the covers. Install the ACM in a UL Listed enclosure only.

WARNING! Be sure the ACM does not have power connected while mounting.

ATTENTION! Assurez-vous que l'appareil n'est pas connecté à l'alimentation lors du montage.

- To mount the ACM on a DIN rail [standard EN50022;
 1-3/8 in. x 9/32 in. (7.5 mm x 35 mm)]
 - 1 Holding the controller with its top tilted in towards the DIN rail, hook the two top flex snaps on the back of the controller onto the top of the DIN rail.
 - 2 Push down and in to latch the two bottom latching tabs of the controller onto the DIN rail.

Installation Instructions



- To remove the ACM from the DIN rail
 - 1 Push straight down from the top to release the bottom tabs.
 - 2 Rotate the bottom of the controller out towards you and pull the controller up and away from the DIN rail to release the bottom latching tabs.
- To mount the ACM on the wall
 - 1 Lift the front covers of the ACM, position the unit against the wall in the desired location, and then mark the key holes with a pencil.
 - Use screws (not packed) to scurely fasten the ACM to the wall.

Use care when installing screws to avoid damaging circuit board components.



Fig. 1 ACM mounting dimensions.

Power

The ACM requires a dedicated 24 VAC, 50/60 Hz @ 40 VA minimum Class 2 transformer.

WARNING! Do not ground either leg of transformer secondary! This may damage the ACM. Do not power other devices from the same transformer. Use a dedicated transformer for the ACM.

ATTENTION! Ne pas raccorder les bornes secondaires du transformateur à la terre. Cela peut endommager l'ACM. Ne pas alimenter d'autres appareils a partir du meme transformateur. Utiliser un transformateur dédié pour l'ACM.

Recommended cable 18 AWG (max. 4 ft.) for power connections. Mount the transformer inside the enclosure with the ACM.

Alerton Help Hvac Manual

Donald A. Coggan

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Fundamentals of HVAC Control Systems Robert McDowall, 2009-08-20 A hard copy companion to the eLearning course that serves as a practical guide to the principles and characteristics of controls and how to apply them in the use selection specification and design of controls systems Fundamentals of HVAC Control Systems Steven T. Taylor, Ross Montgomery, Robert McDowall, Heating Ventilation and Air Conditioning HVAC control systems are omnipresent in modern buildings This book is an introduction to all those involved in the specification design manufacture installation operation or maintainance of these systems The book explains Control theory and how to evaluate select position and sequence the appropriate type of control The electrical knowledge needed to understand controls and the use of electrical circuit drawings The various types of valves and dampers and their selection installation and operation Terminology and attributes of sensors the selection of moisture sensors pressure flow and auxiliary devices Self powered and system powered controls Electric controls control diagrams and control logic The components of pneumatic systems and control applications diagrams Wiring conventions application specific electronic controllers and how to use them in HVAC applications The use of written specifications schedules and drawings to clearly identify what is to be installed how it is to be installed and how it is expected to operate Direct Digital Controls DDC components their inputs and outputs and the programming of DDC routines DDC Networks and Protocols DDC Specification Installation and Commissioning After completing this course you will understand Control theory and how to evaluate select position and sequence the appropriate type of control The electrical knowledge needed to understand controls and the use of electrical circuit drawings. The various types of valves and dampers and their selection installation and operation Terminology and attributes of sensors the selection of moisture sensors pressure flow and auxiliary devices Self powered and system powered controls Electric controls control diagrams and control logic The components of pneumatic systems and control applications diagrams Wiring conventions application specific electronic controllers and how to use them in HVAC applications The use of written specifications schedules and drawings to clearly identify what is to be installed how it is to be installed and how it is expected to operate Direct Digital Controls DDC components their inputs and outputs and the programming of DDC routines DDC Networks and Protocols DDC Specification **Installation and Commissioning** Fundamentals of HVAC Control Systems Ross Montgomery, Robert McDowall, 2008 Annotation This book provides a thorough introduction and a practical guide to the principles and characteristics of controls and how to apply them in the use selection specification and design of control systems **Advanced Automated HVAC** Fault Detection and Diagnostics Commercialization Program Donald Frey, Vernon Smith, Architectural Energy Building Operating Management ,1993 Consulting-specifying Engineer, 1993 Corporation, 2008 **HVAC** Engineer's Handbook Fred Porges, 1991 Hydraulics and Fluid Mechanics covers the proceedings of the First Australasian Conference The book presents 29 papers that tackle several areas of concerns in fluid flow HVAC Systems

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