

Applications

The VAV1717 and VAV1732 controllers are designed for Variable Air Volume (VAV) applications. These controllers operate on an RS-485 BACnet® MS/TP bus as BACnet Application Specific Controllers (B-ASCs).

These controllers feature 10 preloaded standard applications that operate standard VAV box equipment with a proven energy-efficient sequence of operation, without the need for programming. For information on configuring a controller to use a preloaded application, see [Setting a preloaded application](#). These controllers are also fully programmable using the Controller Configuration Tool (CCT), which provides the flexibility to create custom control sequences.

These controllers feature a combination of an integral digital differential pressure transducer (DPT), a damper actuator, and a 32-bit microprocessor. The small package size of the controllers facilitates quick field installation and efficient use of space without compromising high-tech control performance. The controllers connect easily to sensors for zone air temperature sensing.

Communications protocols

The VAV1717 and VAV1732 controllers can communicate using BACnet MS/TP, N2, or wireless Zigbee®. The default communications protocol for all new controllers is BACnet MS/TP. The BACnet protocol is a standard for ANSI, ASHRAE, and the International Standards Organization (ISO) for building controls.

You can use the VAV1717 and VAV1732 controllers as functional replacements for the following controllers:

- VMA1617 and VMA1632
- PCV1617 and PCV1632
- Legacy N2 controllers

These N2-capable MS/TP equipment controller models provide a cost-effective upgrade and modernization path for customers with existing N2 controllers. For installation and commissioning support, and tips for efficient and safe replacement, refer to the *Modernization Guide for Legacy N2 Controllers (LIT-12012005)* and the controller-specific documentation. For information about mapping

N2 objects in controllers with switchable communications protocols, refer to the *N2 Compatibility Options* chapter of the *Controller Tool Help (LIT-12011147)*.

To configure VAV1717 and VAV1732 controllers to communicate using the N2 communications protocol, see [Configuring N2 communications](#).

Installation overview

Observe the following guidelines when you install a controller:

- Transport the controller in the original container to minimize vibration and shock damage to the controller.
- Do not drop the controller or subject it to physical shock.

Parts included

- One controller with a removable FC bus terminal block
- One installation guide
- One self-drilling No. 10 x 25 mm (1 in.) screw

Materials and special tools needed

- Several 6 mm (1/4 in.) female spade terminals for input and output wiring, and a crimping tool for spade mounted terminal blocks
- A small, straight-blade screwdriver for securing wires in the terminal blocks
- An 8 mm (5/16 in.) wrench or a 10 mm (3/8 in.) 12-point socket to tighten the square coupler bolt
- Several shims or washers to mount the controller
- A power screwdriver, a 100 mm (4 in.) extension socket, a punch, a drill, and 3.5 mm (9/64 in.) drill bits to mount the controller
- Pliers to open and close the damper
- The required length from the 3.97 mm (5/32 in.) ID pneumatic tubing and barbed fittings

Physical features

The following figures and tables show the physical features of the controller,



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TD Snyder



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Controls and Automation for Facilities Managers Viktor Boed, 1998-06-23 Building owners and managers expect fully automated and energy efficient operations on line diagnostic of systems parameters to prevent failures and on line diagnostic of problems prior to exposing occupants to deteriorating environmental conditions A simple HVAC control is no longer acceptable by current standards Controls and Automation for Facilities Managers examines principles and applications of HVAC engineering outlining information for design development of operations logic systems diagnostics and building of environmental conditions with reliability and minimum operating cost The book moves from the principles of mechanical engineering related to HVAC systems through DDC applications engineering thereby summarizing complex topics of electrical engineering for mechanical engineers Individual chapters Provide essential information on related mechanical HVAC engineering controls strategies and examples of basic algorithms for on line diagnostics Guide DDC application engineers to a more thorough understanding of mechanical engineering disciplines i e the psychrometric chart as well as guide mechanical engineers to a more thorough understanding of DDC applications engineering i e direct digital controllers and systems Outline information on current topics Discussions also include Indoor air quality presenting material for facilities engineers as well as controls and consulting engineers Utilities metering describing the distribution of real time data over a network including consumption alarms diagnostics trends and reports On line problem diagnostics outlining HVAC and environmental problems Controls and Automation for Facilities Managers serves as an exceptional guide for facilities managers and engineers architects and consulting engineers vendors and contractors and other professionals in the design application and implementation of controls and automation systems for industrial educational institutional and governmental facilities This reference will enhance design systems implementation systems operation and maintenance effecting the ultimate goal of its readers implementation of fully automated environmental control systems trouble free operation and optimization of operating and maintenance cost *Energy Star Buildings Manual* ,1995

Web Based Energy Information and Control Systems Barney L. Capehart, Lynne C. Capehart, 2021-01-07 Advances in new equipment new processes and new technology are the driving forces in improvements in energy management energy efficiency and energy cost control The purpose of this book is to document the operational experience with web based systems in actual facilities and in varied applications and to show how new opportunities have developed for energy and facility managers to quickly and effectively control and manage their operations You ll find information on what is actually happening at other facilities and see what is involved for current and future installations of internet based technologies The case studies and applications described should greatly assist energy facility and maintenance managers as well as consultants and control systems development engineers **Air Conditioning** David Chadderton, 2014-05-09 David Chadderton s Air Conditioning is the complete introduction and reference guide for students and practitioners of air conditioning design installation and

maintenance The scientific principles involved are introduced with the help of case studies and exercises and downloadable spreadsheets help you work through important calculations New chapters on peak summertime air temperature in buildings without cooling systems air duct acoustic calculations and air conditioning system cost enhance the usefulness to design engineers Case studies are created from real life data including PROBE post occupancy reports relating all of the theoretical explanations to current practice Trends and recent applications in lowering energy use by air conditioning are also addressed keeping the reader informed of the latest sustainable air conditioning technologies Over 75 multiple choice questions will help the reader check on their progress Covering both tropical and temperate climates this is the ideal book for those learning about the basic principles of air conditioning seeking to understand the latest technological developments or maintaining a successful HVAC practice anywhere in the world

Handbook of PI and PID Controller Tuning Rules

Aidan O'Dwyer,2009 The majority of automatic controllers used to compensate industrial processes are of PI or PID type This book compiles using a unified notation tuning rules for these controllers It discusses controller architecture and process modeling issues as well as the performance and robustness of loops compensated with PI or PID controllers Specifying Engineer ,1986 *Variable Air Volume Systems for Environmental Quality* Steve Y. S. Chen,Steve Chen,Stanley J.

Demster,1996 This text provides a description and analysis of the Variable Air Volume VAV system from both a practical and theoretical view The information provided ranges from the common textbook equations and references to sources of authoritative information like ASHRAE to a discussion of hands on problems that have been encountered and resolved in actual designs Issues like ccontrols and dampers that behave in a non ideal manner are described with suggestions on how to overcome these limitations The advantages and disadvantages of using VAV configurations are explored and analyzed

The Building Environment Vaughn Bradshaw,2010-09-29 Get the updated guide to active and passive control systems for buildings To capitalize on today s rapidly evolving specialized technologies architects designers builders and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building The Building Environment Active and Passive Control Systems Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort safety and energy efficiency of buildings From active HVAC systems to passive methods lighting to on site power generation this updated edition explains how to strategically plan for and incorporate effective efficient systems in today s buildings It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world s environment The Building Environment goes beyond the ABCs of HVAC and covers On site power generation including wind turbines solar photovoltaic cells fuel cells and more Plumbing systems fire protection signal systems conveying systems and architectural acoustics Procedures and or formulas for performing heat loss heat gain and energy use calculations determining the rate of heat flow calculating solar energy utilization doing load calculations and more Details on the latest

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