CM3540 Series Controller for LT Dehumidifiers

❑ ADVANCED COMMUNICATIONS CAPABILITIES ❑ EASY INSTALLATION AND OPERATION ❑ CONTINUOUS MONITORING

Advanced LT Microprocessor Controller

CM3540 Controller Used on LT Dehumidifier

Optional CM3540 Series Remote Display Terminal (RDT)

Duct Mount
Temperature & Humidity Sensor

Wall Mount
Temperature & Humidity Sensor

FEATURES

- *Advanced program capabilities.*
- *Optional remote user interface.*
- *Precise temperature and humidity control.*

BMS COMMUNICATION MODULES

LonWorks® - Echelon's LonWorks® is a dominant solution of control in industry, offices, homes and transport. Electric standard supported is FTT10.

Modbus® - One of the most widely used protocols. Supports Modbus Slave, RTU mode; communications standard RS485.

BACnet™ MS/TP and BACnet™ Ethernet - Based on EIA-485 and Ethernet™ standards. Connection is possible through the following networks:

- SNMP v1, v2, v3 networks
- BACnet™, Ethernet™, BACnet™/IP networks, BACnet™ MS/TP
- LAN or Internet

ORDER OPTIONS

Controller and Sensor without RDT

- ☐ CA3540ND-DUCT Duct Mount Temp & RH Sensor
- ☐ CA3540ND-WALL Wall Mount Temp & RH Sensor

Controller and Sensor with RDT

- ☐ CA3540WD-DUCT Duct Mount Temp & RH Sensor
- ☐ CA3540WD-WALL Wall Mount Temp & RH Sensor

RDT = remote display terminal with 20ft. cord

Communication Configuration

- ☐ Standard - No BMS Communication
- ☐ LONWORKS® Module
- ☐ BACnet™ Ethernet™ Module
- ☐ BACnet™ MS/TP Module
- ☐ Modbus® Module

All trademarks hereby referenced are the property of their respective owners.

BMS COMMUNICATION MODULES - DETAILS

BacNet™ MS/TP

If the CM3540 was purchased with the BACnet MS/TP option, the BACnet Device Instance and Station Address will need to be set before connection to the control network. This is because the Station Address is set to 0 as a default, and will conflict with the device on the control network already set to 0.

Defining the station address prior to unit shipment will allow Desert Aire to correctly set the address. If the value is not known prior to shipment, the contractor must alter these default settings during unit commissioning. A software utility program will need to be used, allowing access to these settings. For more information, refer to the PCO1000BAO cut sheet shipped with the dehumidifier. Download the CM3540 BACnet Point List from the Desert Aire website (www.desert-aire.com).

BacNet™ Ethernet

If the CM3540 was purchased with the BACnet Ethernet option, it is strongly recommended that the network administrator be contacted, as the incorrect configuration of the Ethernet card may temporarily shut down the entire network. For the correct operation of the Ethernet card, a number of basic parameters need to be set, such as the IP address and Netmask. Each device connected to an Ethernet network must have a unique IP address.

The Ethernet card is supplied with the DHCP function already active. Therefore, in a network served by a DHCP server, the Ethernet card will automatically acquire the necessary parameters without requiring configuration. In the case of a network without DHCP, these parameters need to be configured manually. For more information, refer to the PCO1000W*O cut sheet shipped with the dehumidifier. Download the CM3540 BACnet Ethernet Point List from the Desert Aire website (www.desert-aire.com).

LonWorks®

If the CM3540 was purchased with the LonWorks option, the connection to the control network can be done without controller modification.

For more information, refer to the PCO1000OFO cut sheet shipped with the dehumidifier. The CM3540 XIF file for system configuration, as well as the CM3540 LON point list, is available from the Desert Aire website (www.desert-aire.com).

ModBus® Slave

If the CM3540 was purchased with the Modbus option, the controller network address and baud rate need to be set in the controller for proper communication operation. The default settings as shipped are 9600 for the baud rate and the address is 0.

Refer to the CM3540 controller manual for address and baud rate setting instructions. For more information, refer to the PCOS004850 cut sheet shipped with the dehumidifier. Download the Modbus Point List from the Desert Aire website at www.desert-aire.com.

N120 W18485 Freistadt Road
Germantown, WI 53022
PH: (262) 946-7400
FAX: (262) 946-7401
www.desert-aire.com
E-mail: info@desert-aire.com

288 2011/05