

# dap<sup>4</sup> by DATA AIRE

Data Aire, Inc. proudly introduces the new dap4 microprocessor controller. This new generation controller continues in the tradition of high quality microprocessors to monitor and control the operation of computer room air conditioning units. Like each previous generation of Data Aire Processors (dap), the dap4 provides the same functionality as the prior generation and promises new features while providing a faster and more robust platform on which to build.



**Display Module**

dap4 has two basic components, a control module and a display module. These two components are linked by a special telephone like cable. The display module, most frequently located in the door of a floor mounted unit, can also be remotely located on an adjacent wall or panel – up to 150' away. Communications are clearly displayed on the panel's adjustable backlit screen, making it easy to read in dimly lighted environments. Six large clearly marked buttons on the display panel allows for easy and quick programming, review of alarms, current and recent temperature and humidity conditions, and trouble shooting.

The compact control module fits easily in the electrical box and has a perimeter bus for easy electrical connections. The control module's case of sturdy plastic makes it durable and resistant to damage and also minimizes the risk of electrical shock. At the heart of the controller is a 32 bit 24 MHz processor with 4 MB of flash memory and 512k RAM. These components allow for the fastest processor on the market today, ensuring your cooling equipment is up and running properly. To maintain the information in these components the controller is equipped with a rechargeable battery.



**Control Module**

When circumstances require the dap4 controller to communicate with a BMS management system all that is necessary is the addition of communication card. These cards can come initially with the unit or be added at a later date for your convenience. There are four different cards available covering Modbus RTU, TCP/IP; BACnet IP or MS/TP; SNMP V1 or V2 and LonTalk SNVT.

When alarms occur dap4 identifies the alarm on the display module and sounds an audible alarm, which must be manually silenced. dap4 holds up to 100 alarms in memory and each can be reviewed on the display module simply by scrolling sequentially through the alarms. Each alarm is easy to read and indicates the conditions as well as the date and time of occurrence.

Start-up and service manual override switches continue to be included with dap4, the only controller on the market that has this feature. As in previous ver-

sions of the dap controller, start-up and service personnel are able to by-pass the controller and isolate different components on the air conditioning unit. This speeds up diagnosing a problem and getting the unit back in service as quickly as possible.

dap4's capabilities are just being tapped during the introduction of the product. It is well suited for expansion and capable to meet the future needs of the computer room air conditioning market. Soon additional features and functions will be added, taking full use of its capabilities.

### dap4 - Components

Temperature and Humidity Sensors

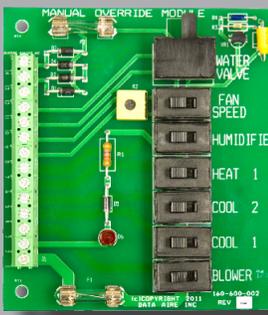


Unit Mounted



Wall Mounted

Manual Override Module



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### Communication Cards



BACNet MS/TP



Modbus



Ethernet



LonWorks

Data Aire Inc. reserves the right to make design changes for the purposes of improvements, or to withdraw any design without notice.