Ready for the open systems challenge

(BAC-7003/7053)

Native BACnet AAC— VAV Fan Induction Units

A 3–input, 3–output controller with built-in actuator for fan induction VAV terminal boxes

KMC CONTROLS

BAC-7003/7053 AAC

Native BACnet VAV FIU Controller

The BAC-7003 and BAC-7053 are native BACnet advanced application controllers (AAC) designed for VAV fan induction units. These MS/TP compliant devices incorporate standard VAV program sequences yet are fully field programmable.

Built-in programming:

- ❑ Heating/cooling change-over
- ❑ VAV with time-proportional reheat
- ❑ VAV with 3–stage reheat
- ❑ Balancer Override

With this programming and integrated actuator, these controllers provide pressure-independent control of a single-duct VAV unit. In addition, an on-board, airflow sensor enables use of a single or multipoint differential pressure measuring station or pitot tube.

The controllers offer 3 universal inputs and a universal output, each of which is programmable as an analog or binary object.

Together with our powerful BACnet operator workstation and other native BACnet devices, the BAC-7003/7053 is ready for the challenges of open systems automation.

BMA™ BACnet Manufacturers Association

FFP Fully Field Programmable

SPECIFICATIONS

Inputs	3 universal, programmable inputs Fourth input dedicated to the airflow sensor Pull-up resistors for switch contacts and other unpowered equipment Removable screw terminal block 10–bit analog-to-digital conversion Overvoltage input protection Pulse counting to 16 Hz
Outputs	1 universal, programmable output 1 Triac output 1 Relay output Fourth output dedicated to actuator motor
Programmable Features	10 Control Basic program areas 4 PID loop objects 32 analog and 32 binary value objects 8 Schedule objects 3 Calendar objects 8 Trend objects (See PIC statement for supported objects)
Communications	MS/TP (EIA-485) operating at 9.6, 19.2. 38.4, or 76.8 kbits NetSensor® compatible
Actuator Features	Shaft Sizing: 1/2-inch; 3/8-inch adaptor available Torque: 50 to 70 in-lb (5.7 to 7.9 N•m) Angular Rotation: 0 to 95° (adjustable end stops at 45°, 60°, & 90°) Motor timing BAC-7003: 18°/minute at 60 Hz (15°/minute at 50 Hz) BAC-7053: 60°/minute at 60 Hz (50°/minute at 50 Hz)

building your comfort zone™

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