VAV IP CONTROLLERS

# Product Data Sheet

## VAVI-7U5-IP

Programmable VAV Room Controller

| SUPPLY VOLTAGE | SUPPLY FREQUENCY | NOMINAL POWER CONSUMPTION | UNIVERSAL I/O CHANNELS |
|---|---|---|---|
| **20-30 V AC** | **50-60 Hz** | **9.3 VA** | **7** |

Alerton VAVI-7U5-IP is a programmable BACnet/IP room controller with an integrated modulating actuator and airflow sensor. It provides pressure-independent variable-air-volume control through seven universal input/output channels and five solid-state relay outputs. The IP version connects through two RJ45 Ethernet ports and is the non-Bluetooth configuration in the manufacturer ordering table.

## 01 TECHNICAL DATA

| | |
|---|---|
| Supply voltage | 20-30 V AC |
| Supply frequency | 50-60 Hz |
| Nominal power consumption | 9.3 VA |
| Universal I/O channels | 7 |
| Solid-state relay outputs | 5 |
| Auxiliary supply output | 20 V DC, 75 mA |
| Actuator torque | 5 Nm |
| Actuator travel time | 108 s at 50 Hz; 90 s at 60 Hz |
| Ethernet connection | 2 RJ45 ports, 10/100 Mbps |
| Pressure sensor range | 0-500 Pa |

Alerton VAV IP Controller Installation and Operations Guide 31-00531-02; pages 3, 6-7, 9-10 and 19-23.

## 02 ADDITIONAL PRODUCT DATA

| | |
|---|---|
| Analog output resolution | 16 bit |
| Operating temperature | 0 to 50 C |
| Storage temperature | -40 to 66 C |
| Relative humidity | 5-95%, non-condensing |
| Enclosure protection | IP20, NEMA 1 |

## 03 PRODUCT FUNCTION

The controller operates from a 20-30 V AC Class 2 supply at 50-60 Hz, with nominal consumption of 9.3 VA under the stated actuator and network conditions. Its actuator delivers 5 Nm torque, while the integral differential-pressure sensor covers 0-500 Pa. A 20 V DC, 75 mA auxiliary output and 16-bit analog outputs complement the configurable I/O. The enclosure is rated IP20/NEMA 1 for dry indoor installation.

## 04 SYSTEM COMPATIBILITY

Provide a 20-30 V AC Class 2 transformer supply and follow the documented power and common-terminal arrangement. Configure each of the seven universal channels for its actual signal type; current inputs may require an external resistor. The five SSR outputs switch a supplied voltage and are not dry contacts.

## 05 REFERENCE

Alerton VAV IP Controller Installation and Operations Guide 31-00531-02; pages 3, 6-7, 9-10 and 19-23.

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