ASIC/1-6000
ASIC/1-6000-PD

Integrated VAV Controller

ASIC/1-6000 Features

- Integrated Damper Actuator
- Compatible with WS-051 Digital Wall Sensor
- Sequences include:
  Cooling Damper Only
  Hot Water or Electric Heat
  Intermittent or Constant Fan
- Features include:
  Auto-Changeover
  Lighting Control
  Variable User Adjust
  After-hours Override
  Trending
- Calibrated on-board airflow sensor.
- Compatible with ASI WebLink & ASI Data Server Products
- Flash programmable firmware

The ASIC/1-6000 is a pre-programmed communicating digital controller with an integral damper actuator for the control of pressure independent Variable Air Volume (VAV) and Fan-Powered VAV terminal units. The controller maintains the space temperature by varying the air volume and includes an on-board airflow sensor. The controller monitors zone temperature through a WS-0X1 Wall Sensor and calculates the correct air volume to be distributed to the space by comparing the zone temperature with the cooling and heating setpoints.

This controller mounts directly on the VAV terminal being controlled. The motor attaches to the damper shaft, and the controller is secured with the anti-rotation screw. The ASIC/1-6000 contains the most frequently used VAV applications and has personalities for cooling only, and cooling with hot water or electric reheat, and constant or intermittent fan. No user programming or calibration is necessary. To be fully operational, the operator needs only to enter a unique device address, select the appropriate personality for the application, and verify or modify duct area and airflow K-factors.

The ASIC/1-6000 may be used in both new construction and retrofit applications. The pre-configured controller allows newly installed zones to be started up quickly and efficiently. Pre-tuned PI algorithms mean that controllers can accurately maintain space temperature. The pressure dependent ASIC/1-6000-PD is suited for individual zone volume and temperature control applications that do not require an airflow sensor.

The ASIC/1-6000 includes after-hours override, user temperature adjustment, and lighting control features. Afterhours usage time is automatically stored at each unit for retrieval by the building operator. Time-based features such as scheduled changes in setpoints and lighting control may be used when the controller is connected in a network and can be synchronized by broadcast time message.

The ASIC/1-6000 can operate-stand alone or as part of a larger communicating control network with other ASI controllers. Communication at speeds up to 19,200 baud means rapid access to information. This enables integrated control of the complete mechanical system to ensure optimum building performance. Temperatures, airflow, setpoints, and other controller information may be easily reported to ASI WebLink, or to any Windows based software that is a client for OLE for Process Control (OPC).

The ASIC/1-6000 has flash programming. The firmware can be upgraded over the local RS-485 communications bus.

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Specifications

Control Power
Supply Voltage: 24 Vac +/- 15%, 50/60 Hz
Power Consumption: 12 VA (plus loads)

Binary Outputs 5
Type: 5 Binary solid state switch
Voltage rating: 24 Vac, 1 Amp, MOV protected

Damper Motor
Type: Brushless LMB24-3-T ASI
Torque: 45 in-lb (5 N-m)
Drive time : 95 s
Power: 24 Vac, 2 VA

Analog Outputs 1
Voltage rating: 0-10 Vdc, 20 mA

Inputs 6
Type: Universal Analog/Binary
Range: 0 to 5 Vdc,10 bit, 0.1% full scale
Temperature Sensor: WS-0X1, WS-051
3 kohm at 77 °F (25 °C) thermistor.
Air Flow Sensor: 1, 6000, 0, 6000-PD
AV-003 Pressure Sensor.
No Filter Required
Control Resolution: 25 FPM at K-factor = 2338.
Range: 0 to 3000 FPM
Maximum Error for all reasons: +/- 5% Full Scale

Communications
Format: RS-485 1/2 duplex
Protection: 100 mA polyswitch
500 mW-s TVS
Baud Rate: 1200 to 19,200

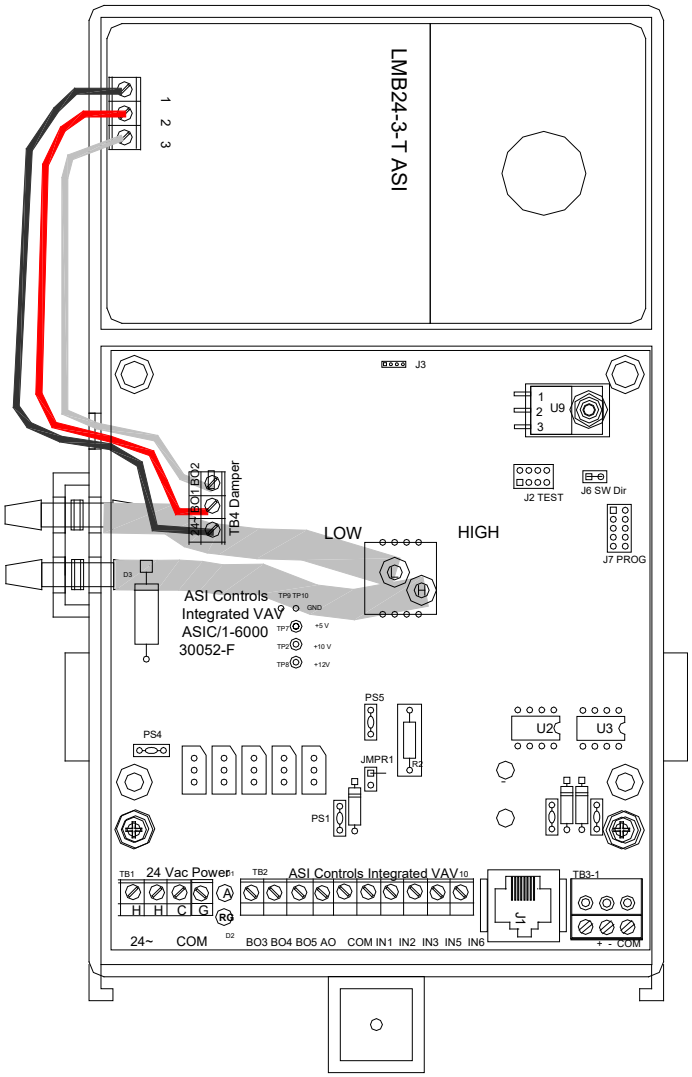
Connections
Power and I/O: Screw terminal
Communications: 3-position screw terminals
Zone Sensor: 8-position, modular jack, RJ-45
for use with ASI cable SCP-0XX
Inputs: Screw Terminal

Other
Indication: 3 LEDs, Power, Rx/Tx
Dimensions: 5.9" x 8.9" x 2.5"
150 mm x 225 mm x 64 mm
Housing: NEMA Type 1, UL94-5V
Polylac PA-766+, FR/ABS,
Weight: 1.66 lbm (0.75 kg)

Environmental
Operating: 0 to 45 °C (32 to +113 °F)
10 to 95% RH non-condensing
Storage: -37 to 80 °C (-35 to +180 °F)

UL Listing
UL-916 Open Energy Management Equipment
File E123287 (PAXZ) Class 2 Device
Canada: C22.2 No. 205-M1983

Meets CE requirements.EN 61326 Class A,
EN 61000-3-2 Class A and EN 61000-3-3
Complies with FCC Part 15 (CISPR 22) Class A



How to Order:	Order Number
VAV Controller with Actuator	ASIC/1-6000
Pressure Dependent VAV with Actuator	ASIC/1-6000-PD

Accessories:	Order Number
Wall Temperature Sensor	WS-0X1
Digital Display Wall Sensor	WS-051
Sensor Cable	SCP-0XX

Software & Documentation:	Order Number
ASI Expert Configuration Software	ASI Expert
ASIC/1-6000 Users' Manual	6000 Manual

Assembled in USA

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