



ASIC/1-6000-MB Features

- 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
- Requires separate Damper Actuator

The ASIC/1-6000-MB is a pre-programmed communicating digital controller for the control of pressure independent Variable Air Volume (VAV), and Fan-Powered VAV terminal units. The controller includes an on-board airflow sensor and maintains the space temperature by varying the air volume. The controller is designed for retrofit work and does not include a damper actuator. The controller monitors zone temperature through the WS-0X1 Wall Sensor and calculates the correct air volume to be distributed to the space based upon comparing this temperature with the cooling and heating setpoints.

The controller 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.

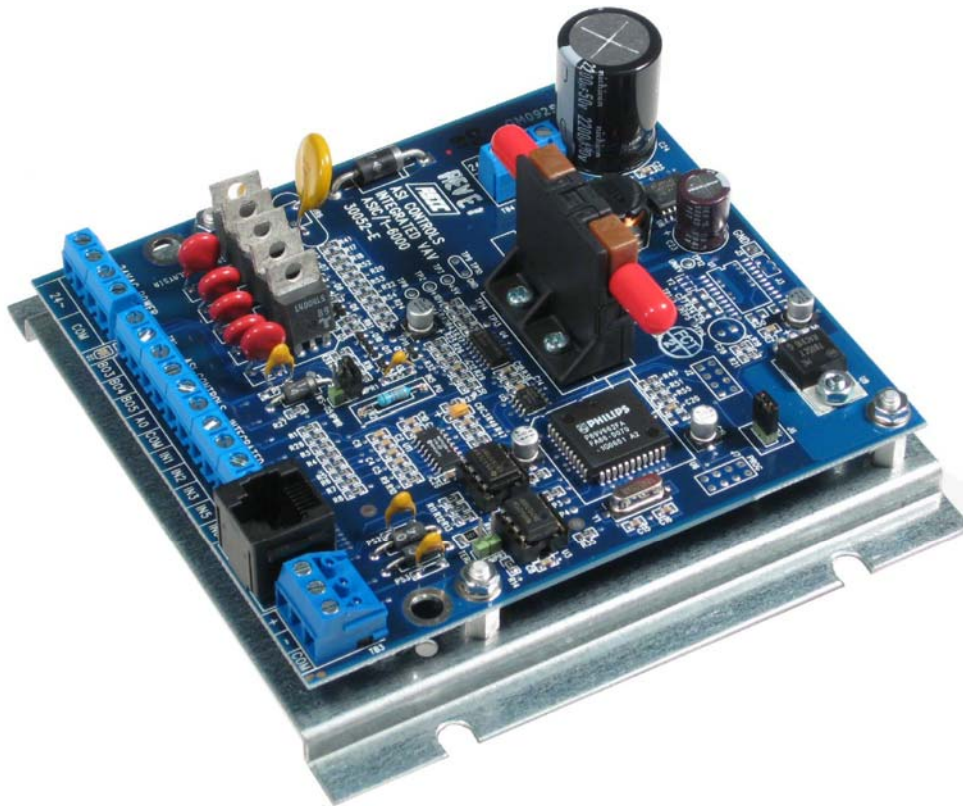
No user programming or calibration is necessary. To be fully operational, the operator needs only to enter a unique device address, select the correct personality for the application and verify or modify duct area and airflow K-factors.

This controller is mounted on a metal base and requires a separate damper motor. The ASIC/1-6000-MB may be used for both new construction and retrofit applications. The pressure dependent ASIC/1-6000-MB-PD is suited for individual zone volume and temperature control applications that do not require an airflow sensor. 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 controllers include after-hours override, user temperature adjustment, and lighting control features. Afterhours usage 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.





VAV Controller

Specifications

Control Power

Supply Voltage: 24 Vac +/- 15%, 50/60 Hz
Power Consumption: 6 VA (plus loads)

Binary Outputs 5

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

Damper Motor

Type: By Others
Power: 24 Vac, 3 VA

Analog Output 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-MB, 0, 6000-MB-PD
Integral solid state AWM 3300.
Includes filter AF-001
Control Resolution: 25 FPM at K-factor = 2338.
Range: 0 to 3300 FPM
Maximum Error for all reasons: +/- 5% Full Scale

Communications

Format: RS-485 1/2 duplex
Protection: resetting 100 mA polyswitch
500 mW-s TVS
Baud Rate: 1200, 9600, or 19,200
Repeater: ASI Converter/Repeater
every 32 devices

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

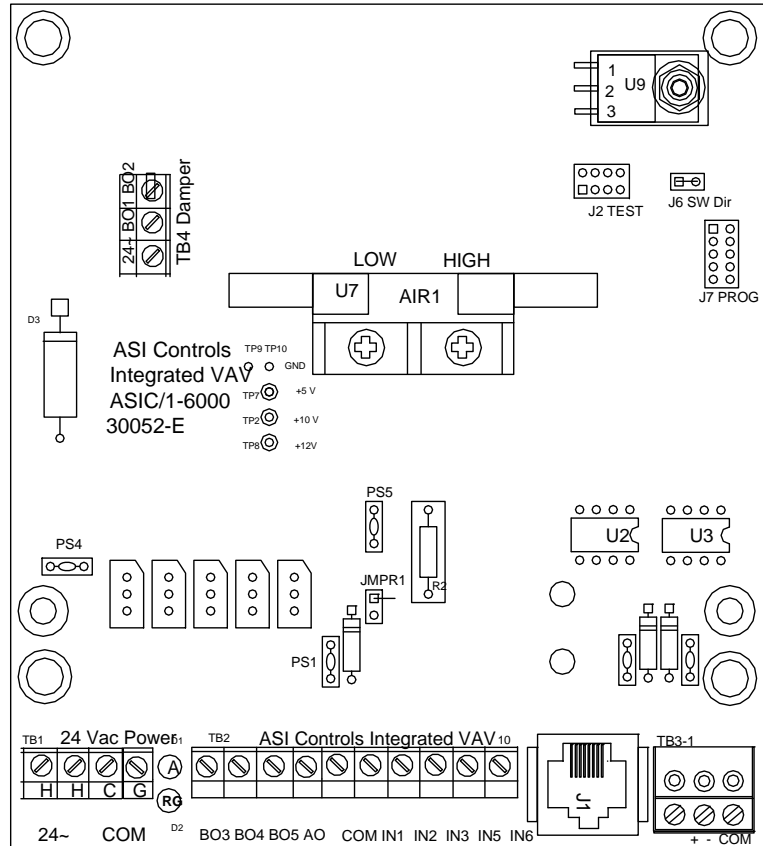
Indication: 3 LEDs, Power, Rx/Tx
Dimensions: 5.5" x 5.2" x 2.0"
115 mm x 127 mm x 51 mm
Mounting Holes: 3.25" x 5.10" (0.25" dia)
83 mm x 130 mm (6 mm dia)
Weight: 0.78 lb (0.35 kg)

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)
5 to 95% rh non-condensing

Listing

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 Metal Base	ASIC/1-6000-MB
Pressure Dependent VAV with Metal Base	ASIC/1-6000-MB-PD

Accessories:	Order Number
Wall Temperature Sensor	WS-0X1
Digital Display Wall Sensor	WS-051
Sensor Cable	SCP-0XX
Airflow Tubing Kit	ATK-10

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

