ASIC/3-6115 Features

- 32-bit ARM9 processor

- RS-485 port ASI or BACnet MSTP communication

- Compatible with Intellifront, ASI WebLink & Niagara

- USB Host and USB Device Service Port

- 8 Universal 0-10Vdc Inputs

- 5 Binary TRIAC Outputs

- 2 Analog 0-10Vdc Outputs

- Supports WS-061 wall sensor

- Optional Integrated SMI Airflow Sensors

The ASIC/3-6115 BACnet programmable VAV controller combines the proven functionality of an ASI terminal controller with the full power of the ASIC/3 object based system controllers.

The ASIC/3-6115 provides the full range of ASIC/3 software objects for developing custom control sequences, and support for the WS-061 wall sensor – all of which make this a powerful package for VAV applications. It has a switching power supply for AC operation and flash memory for program and data storage. Firmware is easily upgradable using ASI Visual Expert or by inserting a USB flash drive into the USB host port.

The controller is easily configured using ASI Visual Expert configuration software that links ready-made objects including scheduling, logic, PID control, alarming, optimum start, trending, run-time accumulation, and electrical demand management. The ASIC/3 has a software clock and allows special events, holidays, and schedules to be defined in advance. Configuration data is stored in non-volatile memory that is retained through power system loss.

The ASIC/3-6115 controller has an RS-485 port that is used to network multiple ASIC/3 controllers via ASI protocol or can optionally support BACnet MS/TP. No central system is needed to supervise the controller. Red and green LEDs indicate the controller's receive and transmit communications.

The ASIC/3 can operate as part of a larger communicating control network. The ASIC/3 also features a full-speed 12 Mbps USB Device connection for service in the field. The RS-485 connection supports ASI protocol baud rates up to 38,400 bps, and standard BACnet MSTP baud rates up to 76,800 bps.

The controller can send notify messages through the RS-485 bus to a computer running ASI Weblink software. Temperatures, setpoints, and other controller data may be easily reported to ASI WebLink, Niagara, Intellifront, or other supervisory software.

The five 24 Vac TRIAC outputs are ideal for driving contactors and relays. The two analog outputs are used for modulated actuators, electronic pneumatic transducers, variable speed drives and other analog signal devices. The eight universal inputs counting pulses, monitoring contact closures directly, and for reading 4 to 20 mA, 0 to 5 Vdc or 0 to 10 Vdc input signals.

Specifications

Control Power
Supply Voltage: 24 Vac +/- 15%, 50/60 Hz
Power Consumption: 16 VA (plus loads)

Binary Outputs 5
Type: 5 Binary solid state switch
Voltage rating: 24 Vac, 1 Amp, MOV protected
Maximum combined current not to exceed 3A

Analog Outputs 2
Rating: 0-10 Vdc,20 mA at 10Vdc
Protection: TVS, 10 V, 600 W peak

Inputs 8
Type: Universal Analog/Binary
Range: 0 to 10 Vdc,12 bit, 0.1% full scale
Temperature Sensor: WS-0X1, WS-061
3 kohm at 77 ºF (25 ºC)
Type 2 thermistor
Air Flow Sensor: 2; 6115-DD; 1:6115; 0: 6115-PD
No Filter Required

BACnet MS/TP Communications
BACnet is a registered Trademark of ASHRAE Inc.
BACnet BTL B-BC Certification
Format: RS-485
Baud Rate: 9600, 19,200, 38,400
or 76,800 Baud
Optional 120 ohm termination
Protection: 100 mA Polyswitch fuse
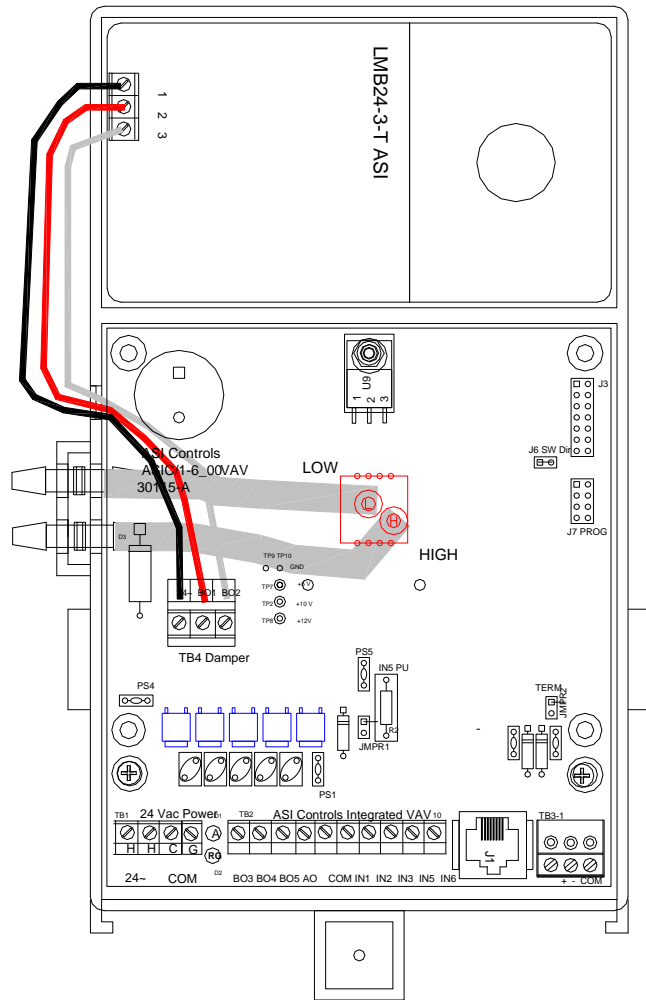
ASI Communications
Format: RS-485, Through Wall Sensor, or USB device port
Baud Rate: Up to 38,400 baud

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

Other
USB power: 500mA maximum
Indication: 3 LEDs, Power, Communication
Terminal Torque: 45 in-lb/5 Nm
Dimensions: 5.9" x 8.9" x 2.5"
150 mm x 225 mm x 64 mm
Weight: 1.65 lb (0.75 kg)
Operating Range: 45 ºC maximum (+113 ºF)
10 to 95% RH non-condensing

Assembled in USA

How to Order:	Order Number
BACnet Programmable VAV Controller	ASIC/3-6115
BACnet Programmable Dual Duct Controller	ASIC/3-6115-DD
BACnet Programmable VVT Controller	ASIC/3-6115-PD

Accessories:	Order Number
Wall Temperature Sensor	WS-0X1
Digital Display Wall Sensor	WS-061
Sensor Cable	SCP-0XX

Software & Documentation:	Order Number
ASI Expert Configuration Software	ASI Expert
ASIC/3-6115 Users' Manual	6115 Manual