



## ASI Controls

## Fan Coil Controller

### ASIC/1-8255 Features

- Library of sequences includes:
  - 4 pipe Fan Coil
  - 2 pipe Fan Coil
  - optional electric heat
- Features include:
  - Auto-Changeover
  - Lighting Control
  - Variable User Adjust
  - After-hours Override
  - from Pushbutton
- Discharge Air Temperature Low Limit Control
- Compatible with ASI WebLink & ASI Data Server products

The ASIC/1-8255 is a pre-programmed digital controller for use in the control of fan coil units. This controller maintains the space temperature by varying the temperature of the delivered air. The controller has personalities for two pipe and four pipe units and for auxiliary electric heat. The controller is mounted on a steel base.

The controller contains a library of the most frequently used fan coil applications so that no user programming 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 temperature setpoints. No calibration is required.

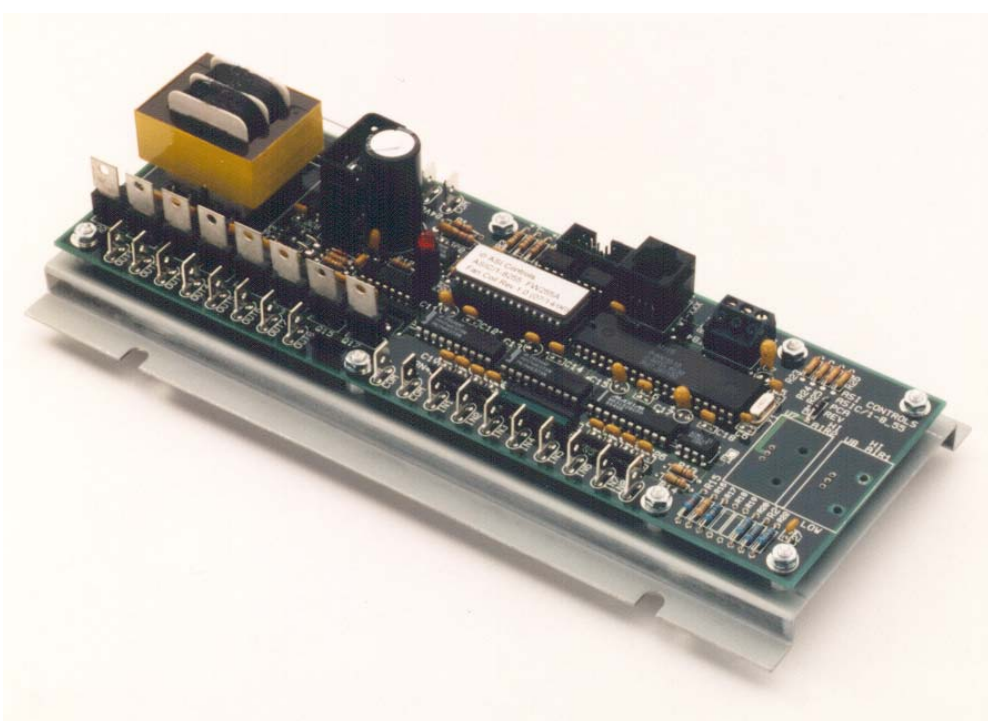
The controller monitors zone temperature through the WS-0X1 Wall Sensor. It calculates the cooling or heating requirement for the space based upon comparing this temperature with the cooling and heating setpoints. Control of the fan is included.

The ASIC/1-8255 may be used for both new construction and retrofit applications. The pre-configured nature of the controller allows newly installed zones to be started up quickly and efficiently. A pre-tuned PI algorithm means that controllers can accurately maintain space temperature.

The ASIC/1-8255 controls fan coil units using 24 Vac 3-wire valves. Electric heat can also be controlled. Discharge Air Temperature Low Limit control is an optional feature that prevents the discharge of excessively cold air to the space.

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 that can synchronize the ASIC/1 internal software clock by broadcasting a time message.

The ASIC/1-8255 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) or Dynamic Data Exchange (DDE).





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### Specifications

#### Control Power

Supply Voltage: 24 Vac +/- 15%, 50/60 Hz

Power Consumption: 6 VA (plus loads)

#### Outputs 8

Type: 8 Binary solid state switch common to ground

Voltage rating: 24 Vac, 1 Amp

#### Inputs 8

Type: Universal Analog/Binary

Range: 0 to 5 Vdc

Resolution: 10 bit, 0.1% full scale

Accuracy: 1%

Temperature Sensor: WS-0X1

3 kohm at 77 °F (25 °C) thermistor.

#### Communications

Format: RS-485 1/2 duplex

Protection: 1/8 A pico fuse,

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500 mW-s TVS

Baud Rate: 1200, 9600, or 19,200

Repeater: ASI Converter/Repeater  
every 32 devices

#### Connections

Power and I/O: Male spades (0.25")

Communications: 3 Position screw terminals

Zone Sensor: 8 position, modular jack,  
for use with ASI cable, SCP-0XX

Inputs: Male spades (0.25")

#### Other

Indication: 1 LED

Dimensions: 3.25" x 9.50" x 1.50"

83 mm x 241 mm x 38 mm

Steel Base: 4.5" x 9.7" x 0.70" (WxLxH)

114 mm x 246 mm x 18 mm

with mounting holes on center

6.7" x 3.95" (170 mm x 100 mm )

Weight with base: 1.46 lb (0.66 kg)

#### Environmental

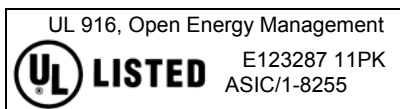
Operating: 0 to 50 °C (32 to +122 °F)

10 to 95% rh non-condensing

Storage: -37 to 80 °C (-35 to +180 °F)

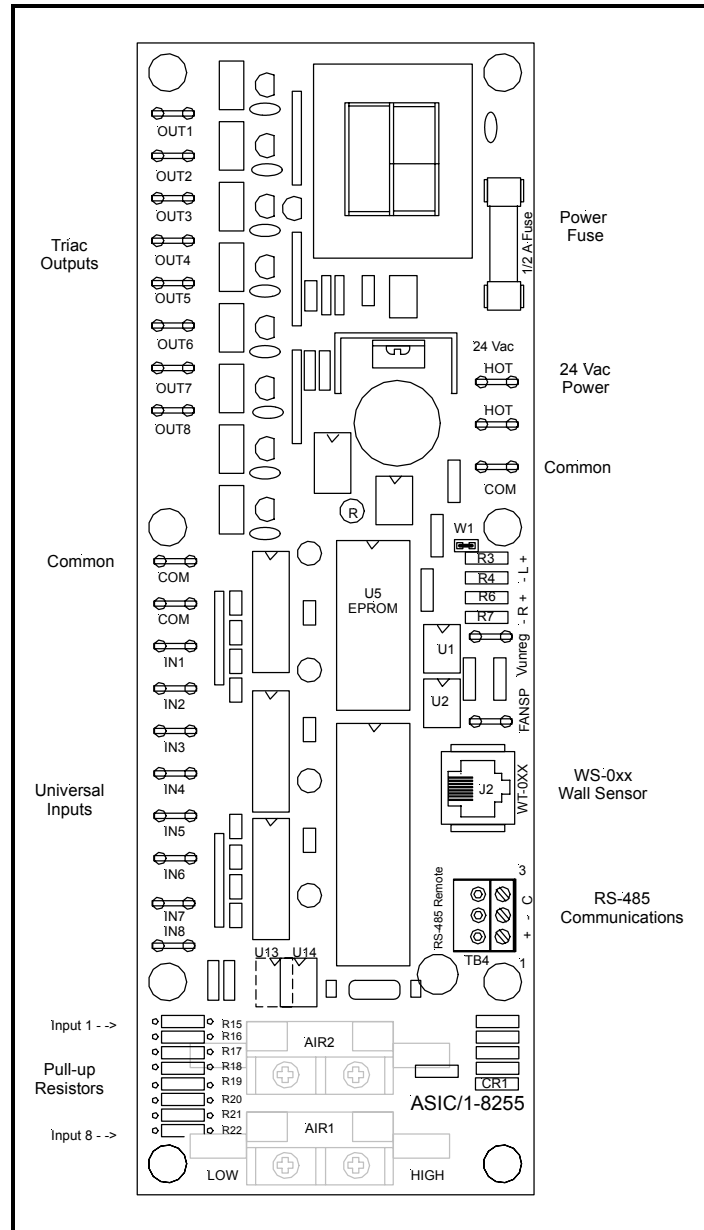
5 to 95% rh non-condensing

#### UL Listing



Rated as a Class 2 Device, Pilot Duty  
Includes terminal connector kit with wiring  
instructions. Use provided connectors.

Meets CE Requirements



How to Order:	Order Number
Fan Coil Controller on base	ASIC/1-8255

Accessories:	Order Number
Wall Temperature Sensor	WS-0XX
Sensor Cable	SCP-0XX
Top Cover Kit	CE-055

Software & Documentation:	Order Number
ASI Expert Configuration Software	ASI Expert
ASIC/1-8255 Users' Manual	8255 Manual