



EC100

SMART I/O™

DESCRIPTION

APPLICATIONS

- Air Handling Units
- Fan Coil Units
- Roof Top Units
- Heat Pumps
- VAVs
- Chillers
- Boilers
- Lighting
- Energy Management
- Refrigeration
- Custom Applications

FEATURES

- LonTalk Protocol
- Free Topology Communication (FTT-10)
- 5 universal inputs with 0-5V, 0-20mA, thermistor or dry contact (UI5 also has 0-10V)
- 5 digital outputs (Triac, 1 A)
- FLASH Memory Standard
- Optional selectable memory (Flash, SRAM)
- DIN-rail mounting
- Compact Size for Minimal Panel Space
- Fully programmable
- 2 Year Limited Warranty

The Smart I/O™ EC100 programmable controller incorporates 10 channels of cost effective analog and digital I/O. The I/O is monitored and controlled by a Neuron 3150 chip with Free Topology communication over a LonWorks® network. As an option, the EC100 can be specified with selectable FLASH/SRAM memory. The EC100 can be utilized in many custom or fixed distributed control applications.

The I/O of the EC100 makes it perfect for a variety of equipment control applications. The wide operating temperature range, -20 to 70 °C, makes the EC100 well suited for many demanding applications.

The five universal inputs (UI) can be configured in a variety of ways. The controller can interface with resistive type sensors for temperature measurements. The UI's can measure voltage from humidity or transducer readings. The UI's can also be used to read digital inputs and dry contacts. With 12 bits of resolution, the universal inputs are field adaptable and accurate for many types of measurements.

The five digital outputs (DO) are Triac outputs for control of additional on/off or pulsed external devices where the current does not exceed 1A at 24 VAC.

The EC100 controller is protected from reverse power supply input wiring, over-voltages, transients, and other common events that can damage unprotected inputs and outputs.

The versatile I/O allows numerous applications to be development and implemented with the EC100.

User defined algorithms and functions can be programmed using VisualControl™, NodeBuilder, LonBuilder or other third party LONWORKS programming tools. The application program can be downloaded over the free topology network and is stored in non-volatile memory so it is retained even after loss of power.

The enclosure snaps right onto a 35mm DIN-rail for quick and easy mounting. Its spring-loaded latching mechanism makes it easy to remove.

SELECTION GUIDE

S-EC100P-F-

B - STANDARD 56K Flash Memory Only

M - Selectable Memory (FLASH, SRAM)

