

## SmART I/O

## DESCRIPTION

The Smart I/O ${ }^{\text {TM }}$ 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 ${ }^{\circledR}$ 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 $70^{\circ} \mathrm{C}$, makes the EC100 well suited for many demanding applications.

The five universal inputs (UI) can be configured in a variety of ways. Universal inputs 1 through 4 (UI1-UI4) can interface with resistive type sensors for temperature measurements. These four inputs can also measure 0-5 volts from typical low output resistance sensors. Universal inputs 1 through 4 are also well suited for reading digital inputs and dry contacts for status or alarm conditions. Universal input 5 (UI5) is specifically set-up to measure only voltage. The default voltage range is $0-5$ volts and can be set to measure $0-10$ volts with the change of an option jumper. The Ul's are well suited to measure voltage values from humidity and many other transducer output signals. 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 ${ }^{\text {™ }}$, 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 35 mm DIN-rail for quick and easy mounting. Its springloaded latching mechanism makes it easy to remove.

## SELECTION GUIDE

S-EC100P-F- $\square$
B - STANDARD 56K Flash Memory Only

M - Selectable Memory
(FLASH, SRAM)

## SPECIFICATIONS



