



The DIN Single Point of Control (DIN-SPOC) is a LonMark[®] compatible device that offers a simple, cost-effective method of providing interfaces to non-LonWorks[®] clients. It provides a single isolated digital input and a single isolated digital output. The unit is packaged in a DIN-Rail compatible enclosure for easy mounting with other building and industrial automation devices and can be mounted directly to a wall using the integral mounting points. Interface to the LonWorks[®] network is via a FTT-10A transceiver with integral DC blocking capacitors.

The digital input accepts voltages in the range of 3-30V AC/DC and can be configured to accept dry switch closures. The digital output is a SPST 277VAC 10A relay. For cases where an opto-relay is used, the device can be configured to provide an isolated 12VDC control signal capable of sourcing up to 100ma. These outputs are controllable by a Hands - Off - Automatic (HOA) front panel switch. State of both the input and output are shown with front panel LEDs.

The node uses the 3150 Neuron chip and carries 64K bytes of FLASH memory for easy changes to the application program in the field. The unit is powered by an isolated power supply that accepts input voltages from 10V to 30V AC or DC. The inputs and outputs for the module have 1500V isolation.

FEATURES

- SPDT 277VAC, 10A output.
- Isolated 12V control output for use with opto-relays.
- Digital input that accepts 3-30V (AC/DC) control voltages or dry switch closures.
- Flash memory for 3150 on-board for easy applications changes.
- FTT-10A transceiver with integral DC block capacitors.
- Integral Hands-Off-Automatic (HOA) front panel control.

BENEFITS

- For building and industrial automation the device provides a simple low cost device for remote sensing and control of non-LonWorks[®] clients over a FTT based LonWorks[®] network.
- Provides DIN mounting compatibility for easy installation and maintenance.
- Integrates the HOA and I/O state LEDs to front panel to simplify trouble shooting and eliminating external hardware.
- I/O capabilities allow direct control of a large number of industrial devices without the need for external adapter hardware.
- LonMark[®] compatibility to allow for easy installation and reconfiguration.

DESCRIPTION

The Group Alpha DIN-SPOC is a DIN rail compatible device that integrates a single digital input and single digital output into a LonMark[®] compatible device. Its high ratings for the digital output and the wide range of input control voltages allows for easy connection to a large number of industrial/building automation devices. The printed circuit board assembly carries a 3150 Neuron processor along with 64K bytes of FLASH memory allowing for easy modification of the application code.

Connection to the LonWorks[®] network is made through a FTT-10A transceiver with integral DC blocking capacitors. Connection to the I/O device is made through isolated connections with 1500V of isolation. The unit is powered by a isolated power supply that operates over the range of 10V - 30V (AC or DC).

Technical Specifications

Temperature:	Operating	-40 - +85°C
	Non-Operating	-40 - +85°C
Humidity(non-condensing):	Operating	5 - 95%
	Non-Operating	5 - 95%
Transceiver:	FTT-10A with integral DC block capacitors.	
Input Voltage:	10 - 30 volts either AC (47-63Hz) or DC. Supply is isolated with 1500V of isolation.	
Digital Output:	SPDT 277VAC, 10A relay. Unit can also provide 12VDC switched for control of external opto-relays. The 12 Volt output can source 100ma. Isolation on both outputs 1500V.	
Digital Input:	3 - 30V (AC/DC) or dry switch closure. Isolation voltage 1500V.	
User Interface:	Integral front panel HOA switch with indicator LEDs showing state of both input and output.	
Approvals:	UL916, UL864, FCC	

Group Alpha, Inc.
P.O. Box 5794
235 Camson Rd.
Anderson, SC 29623
TEL (864) 225-9231
FAX (864) 231-9863