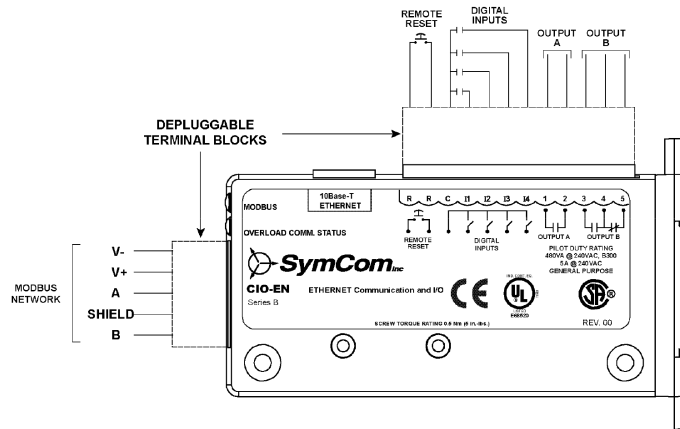# CIO-EN

Communication link to PLC/SCADA/ monitoring systems

Description

The CIO-EN Module (non-POE) is a convenient and cost-effective Modbus-TCP and Modbus-RTU interface capable of providing discrete control and monitoring of an overload relay over a Modbus network.

Wiring Diagram

Features & Benefits

FEATURES	BENEFITS
Compact size 3.4" H x 1.0" W x 5.46" D	Easily adapts to existing as well as new applications
Flexible addressing standard allows function as stand-alone interface or in conjunction with 777 series overload relay	Provides flexibility for control and monitoring
Remote reset option	Additional remote reset input allows user to reset 777 series relays without opening the panel
DIN rail or surface mountable	Allows installation flexibility
Built in Ethernet jack	Reduces field wiring

Specifications

Input Characteristics
Power Requirements:

Voltage	24VDC +10%
Current	95mA (max.) 70mA (typical)
Power	2.28 W (max.) 1.7 W (typical)

Digital Inputs
General Purpose (4)

Voltage Range	12-24VDC
Current	2mA (typical)

Functional Specifications

Remote Reset (for use with optional 777 Series)	Normally open pushbutton rated 24VDC, 10mA (min.)
Ethernet Controller	IEEE 802.3
Capability	10Base-T

Output Characteristics
SPDT (1), SPST (1)

Pilot Duty	480VA & 240VAC, B300
General Purpose	5A @ 240VAC

General Characteristics

Ambient Operating Temperature	-20° to 70°C (-4° to 158°F)

Terminal (depluggable terminal block)

Torque	3 in.-lbs. (max.)
Wire AWG	12-20 AWG
Class of Protection	IP20, NEMA 1 (finger safe)
Relative Humidity	10-95%, non-condensing per IEC 68-2-3

Standards Passed

Electrostatic Discharge (ESD)	IEC 61000-4-2, Level 3, 6kV contact, 8kV air
Radio Frequency Immunity, Radiated	150 MHz, 10V/m
Fast Transient Burst	IEC 61000-4-4, Level 3, 4kV input power
Hi-Potential Test	Meets UL508 (2 x rated V + 1000V for 1 min)

Surge

Input Power	IEC 61000-4-5, Level 1
Inputs/Data Lines	IEC 61000-4-5, Level 2

Safety Marks

UL	UL508 (File #E68520)
CSA	C22.2 (File #46510)
CE	IEC 60947-6-2
Enclosure	Polycarbonate
Dimensions	**H** 86.36 mm (3.4"); **W** 25.4 mm (1.0"); **D** 138.68 mm (5.46")
Weight	0.25 lb. (4 oz., 113.4 g)
Mounting Methods	DIN Rail or surface mount (w/two #8 screws)