Protege DIN Rail 8 Input/4 Output Expander

The Protege DIN Rail 8 Input/4 Output Expander provides the the interface of up to 8 zone inputs and the control of 4 high current Form C relay outputs to the Protege system, an advanced technology security product providing seamless and powerful integration of access, security and building automation. With extensive hardware advancements that allow flexible input programming and configuration, and structured control of lighting and automation systems, the Input/Output Expander is designed for use with industry standard DIN Rail mounting.

Feature Highlights

> Connect any combination of normally closed or normally open inputs, configurable per input

> Utilizes analog to digital processing with 5 over sampling

> 4 state input alarm using resistors to provide short, alarm, closed and tamper conditions

> 4 FORM C relays capable of switching resistive loads up to 7 Amps

> High performance 32 Bit processor

> Designed for use with industry standard DIN Rail mounting

Power Supply

The Input/Output Expander operates from a 12VDC input. Ultra low current requirements ensure cost effective power distribution.

Connectivity and System Expansion

Expansion of the Protege system with local inputs and outputs allows convenient cost effective expansion and added benefit of:

> 8 inputs that can used to perform any system alarm and automation functions

> 4 multiple function outputs for use in any programmable output entry, ideal for connection in an electrical switch room to control signage, lighting and building automation

> Address configuration is achieved using the address programming feature of the Protege System Controller

> Outputs can be configured to automatically turn on when powered up, on communication failure, or to resume previous state

Communication

Single RS-485 communication interface port used for all network communication functions and interconnection to other modules.

Upgradable Firmware

Utilizing the latest flash technology and high performance communication mediums, the firmware can be updated using the ICT Loadit utility over the Protege system module network.

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Technical Specifications

Power Supply	
DC Input Voltage	12VDC (+/-10%)
DC Output Voltage (DC IN Pass-Through)	12VDC 0.7A (Typical) Electronic Shutdown at 1.1A
Operating Current	80mA (Typical)
Low Voltage Cutout	8.7VDC
Low Voltage Restore	10.5VDC
Communication	
RS-485	Isolated Module Network
Outputs	
Outputs	4 FORM C Relay Outputs, 7A 250V Max
Inputs	
Inputs	8 (10ms to 1hr Input Speed Programmable)
Trouble Inputs	16
Dimensions	
Dimensions (L x W x H)	156.8 x 90 x 60mm (6.17 x 3.54 x 2.36")
Weight	290g (10.23oz)
Temperature	
Operating	0˚-49˚C (32˚ - 122˚F)
Storage	-10˚- 85˚C (14˚ - 185˚F)
Humidity	0%-93% non condensing, indoor use only (relative humidity)

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