Protege Half DIN Rail 8 Output Expander

The Protege Half DIN Rail 8 Output Expander provides the control of 8 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. The Output Expander provides extensive hardware advancements that allow flexible and structured control of lighting and HVAC systems and is designed for use with industry standard DIN Rail mounting.

Feature Highlights

- 8 Form C relays capable of switching resistive loads up to 5 Amps
- Compact two-tier half DIN rail module design
- LED indicators to show state of all onboard relays
- High performance 32 Bit processor
- Secure encrypted RS-485 module communications
- Online and remote upgradable firmware
- Ideal for connection in an electrical switch room to control signage, lighting and building automation

Power Supply

Device power is supplied from a 12VDC input. Ultra low current requirements ensure cost effective power distribution.

Smaller Footprint

The compact module design takes up less valuable real estate to provide more control in less space.

Connectivity and System Expansion

Expanding the Protege System with outputs from the Output Expander allows convenient, cost effective expansion and added benefit of:

- 8 multi-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, during communication failure, or resume to their 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 Loadit utility over the system module network.

Technical Specifications

Power Supply	
DC Input Voltage	11-14VDC
DC Output Voltage (DC IN Pass-Through)	10.83-14.0VDC 0.7A (Typical) Electronic Shutdown at 1.1A
Operating Current	80mA (Normal Standby)
Total Combined Current*	3.25A (Max)
Low Voltage Cutout	8.7VDC
Low Voltage Restore	10.5VDC
Communication	
RS-485	Module Network
Outputs	
PGM Outputs	8 Form C relays - 7A N.O/N.C. at 30 VAC/DC resistive/inductive
Dimensions	
Dimensions (L x W x H)	78 x 90 x 60mm (3.07 x 3.54 x 2.36")
Weight	244g (8.6oz)
Temperature	
Operating	EU EN -10˚ to 55˚C (14˚ to 131˚F)
Storage	-10˚- 85˚C (14˚ - 185˚F)
Humidity	0%-93% non-condensing, indoor use only (relative humidity)

* The Total Combined Current refers to the current that will be drawn from the external power supply to supply the Output Expander and any devices connected to its outputs. The Auxiliary outputs are directly connected via thermal resettable fuses fuses to the N+ N- input terminals, and the maximum current is governed by the trip level of these fuses.

It is important that the unit is installed in a dry cool location that is not affected by humidity. Do not locate the unit in air conditioning or a boiler room that can exceed the temperature or humidity specifications.

Ordering Information

PRT-HPX8-DIN	Protege Half DIN Rail 8 Output Expander