LifeSafety Power®

Overview

These ProWire Unified Power wall mount models are single and dual voltage access power systems, precision wired for Mercury controllers. ProWire enables the specification and installation of **standardized access power equipment** across an enterprise for uniform operation, maintenance and servicing.

The C4 or M8 control modules provide access control inputs capable of voltage or dry contact activation, and outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the power supply fire alarm interface. The D8 modules provide auxiliary outputs. In dual voltage systems, each output is configurable for 12 or 24VDC operation.

ProWire Unified Power enclosures are painted steel with removable backplate, lock, keys and and tamper switch and come 100% factory tested – ready for final panel installation and field wire termination.

Product Features

- Guarantees uniform installations across an enterprise
- Pre-installed wire harness for panel power, lock control, faults and tamper switch
- Point to point wiring; labeled, color coded, twisted pair, shielded communication
- Tie wrap cable management
- Managed systems monitor power, batteries and eight outputs
- UL294, ULC S319 joint LSP / Mercury integrated listing

Enclosure Styles

E2M

E4M

Model Nomenclature

Power Supplies

FPO75-B100

Accessory Boards & Enclosure

C4 D8P E4M / **T4-A**

Wiring Option

Power rating
FPO75   2A/24V   50W lock power
B100   2A/12V   25W system power

Enclosure

Accessories
C4, D8, M8 (fused)
C4P, D8P, M8P (ptc)

T Tie Wrap 4DR
A MR52 / EP1502
B MR52 / EP2500
C ALL MR52

*Base Model Number	Tie Wrap Wiring				System Type	Distributed Outputs	Enclosure / Cable Mgmt
	T4-A	T4-B	T4-C		STD / NET	Auxiliary and Control	H x W x D (inches)
Dual voltage - 2A/12V and 2A/24V							
FPO75 – B100C4D8PE2M /	T4-A	T4-B	T4-C		Standard	8 auxiliary, 4 lock control	**E2M** 20 x 16 x 4.5 Tie Wrap
FPO75 – B100M8PNL4E2M /	T4-A	T4-B	T4-C		Networked	8 managed	
FPO75 – B100C4D8PE4M /	T4-A	T4-B	T4-C		Standard	8 auxiliary, 4 lock control	**E4M** 24 x 20 x 4.5 Tie Wrap
FPO75 – B100M8PNL4E4M /	T4-A	T4-B	T4-C		Networked	8 managed	
Single voltage - 6A/12V (3A/24V)							
FPO75 – C4D8PE2M /	T4-A	T4-B	T4-C		Standard	8 auxiliary, 4 lock control	**E2M** 20 x 16 x 4.5 Tie Wrap
FPO75 – M8PNL4E2M /	T4-A	T4-B	T4-C		Networked	8 managed	
FPO75 – C4D8PE4M /	T4-A	T4-B	T4-C		Standard	8 auxiliary, 4 lock control	**E4M** 24 x 20 x 4.5 Tie Wrap
FPO75 – M8PNL4E4M /	T4-A	T4-B	T4-C		Networked	8 managed	

Complete model number requires base and wiring suffix, i.e, FPO75-B100C4D8PE2M / T4-A

System Specifications

Power Supplies	**FPO75**	Power supply board, 2A/24V
	B100	Secondard voltage module, 2A/12V class 2 power limited
		Input 120/230VAC 50/60Hz	83 Watts (0.69A) Overload and short circuit protection Over temperature protection Polarized AC power supply disconnect
Battery Charging		Independent built-in charger for sealed lead-acid or gel type batteries Microprocessor dual rate charging of 12 or 24V battery sets Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup
Supervision		AC Fault (form "C" contacts) System Fault (form "C" contacts) System Fault conditions: Low or no battery	short to earth ground	power supply failure
Distribution Modules	**D8P**	8 auxiliary outputs, class 2 power limited at 2.5A per output
	C8	8 relay lock control outputs, fused at 3A per output
	M8	8 relay managed outputs, fused at 3A per output
Network Management	**NL4**	Four port module. Monitors and reports power supply status. Tests and reports battery health status.
	M8	Monitors eight (8) individual outputs. Remote reset each output. Set window thresholds for voltage & current.
Enclosures	**E2M**	Size: 20.00H x 16.00W x 4.50D in. (51.00 x 41.00 x 11.50 cm)	Weight: 20 lbs.
	E4M	Size: 24.00H x 20.00W x 4.50D in. (61.00 x 50.00 x 11.50 cm)	Weight: 25 lbs.
Wiring Suffix	**T4-A**	**T** = Tie Wrap **4** = Door count **A** = MR52 / EP1502
	T4-B	**T** = Tie Wrap **4** = Door count **B** = MR52 / EP2500
	T4-C	**T** = Tie Wrap **4** = Door count **C** = All MR52s
Regulatory Compliance	**UL / ULC**	UL294, ULC S319
	CSA / FCC	CSA C22.2 #107.1	FCC Part 15, CSFM

A MR52 / EP1502 B MR52 / EP2500 C All MR52's
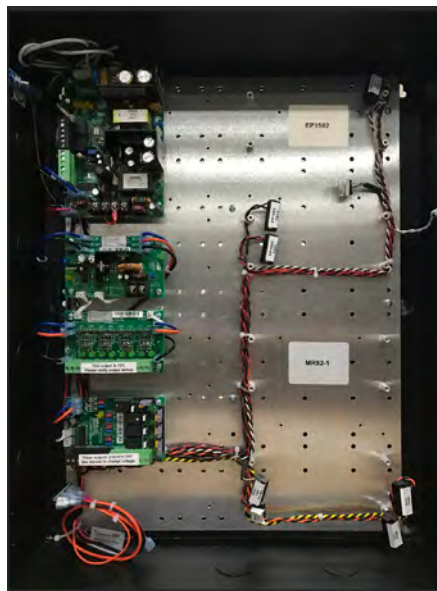
Board Locations / Wiring Examples

Tie wrap - E2M

E2M

E4M

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