PS-C25TB

ROSSLARE
Secure Access Solutions

Power Managment Enclosure with built in Secure Relay I/O Module

Installation Manual

1. Introduction

The PS-C25TB is a Power Management Enclosure for use with Rosslare's Secure Stand-Alone Controller Unit. It is a combination of the ME-0515M Multipurpose Power Management Enclosure and the MD-25TB Secure Relay I/O Module preassembled for installation convenience. The secure relay provides power to the Controller Unit. The Controller Unit communicates with the secure module through a Rosslare proprietary protocol, providing instructions to activate the lock/auxiliary relays and a built-in sounder (with bell and siren tones). The secure module also communicates the REX input status to the Controller Unit. A red LED indicates the secure module power status. The secure module includes removable terminal blocks for ease of wiring and installation.

The enclosure features a switch-mode power supply (SMPS) that outputs power to the PM-05 power management module.

The PM-05 power management module has two independent power channels with an isolated PTC (self-resetting fuse). One channel powers the MD-25TB while the other channel may be used to power a lock. Battery backup is available. When AC power fails, the PM-05 instantaneously (UPS) switches power over to a stand-by sealed lead acid (SLA) battery (not included) charged by a built-in battery charger. A low battery cutoff prevents batteries from deep discharge.

Figure 1: PS-C25TB

2. Technical Specifications

2.1 Electrical Characteristics

SMPS	**Input**	110 – 240 VAC, 50/60 Hz, 1.5 A
	Output	15 VDC, 4 A
PM-05	**Input**	15 VDC, 4 A
	DC Output	14.5 VDC, 2 A (CH1/CH2)
	Battery Charge current	1.5 A
MD-25TB	**Input**	12 VDC, 2 A
	Output	12 VDC, 0.25 A (PCB maximum output current) 5 A Form C, SPDT Relay
	Auxiliary Output	Max Switched Current: 5 A Max Switched Voltage: 150 VDC or 300 VAC UL Rating: 5 A at 30 VDC or 5 A at 125 VAC
	Speaker Output	0.25 W, 8 Ω (minimum)
	LED indicators	Power status: • Red – power on • Off – power off

2.2 Environmental Characteristics

Operating Environment	Indoor
Operating Temperature Range	-10°C - 50°C (14°F - 122°F)
Operating Humidity Range	0% - 85% (non-condensing)

2.3 Physical Characteristics

Dimensions (H x W x D)	228 x 224 x 84 mm
Weight	2.21 kg (4.87 lb)

3. Installation

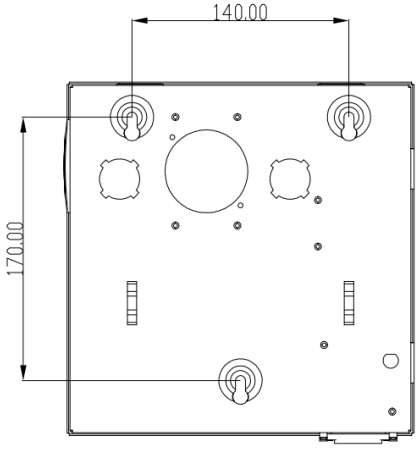
3.1 Mounting

Make sure the mounting location is a flat surface.

To mount the ME-0515M:

1. Drill holes in the wall using the enclosure back cover holes as a guide (Figure 2).
2. Insert masonry anchors into the drilled holes.
3. Mount the enclosure on the wall.
4. Once the PC-C25TB is mounted, it can house a controller and an expansion.

Figure 2. Enclosure Drill Holes



3.2 Wiring

Refer to the wiring diagrams below.

> Note
> The MD-25TB auxiliary output maximum current is 5 A. But the PM05 output max current is 2 A.
> If the lock or auxiliary load current is more than 1.5 A, you must use an external power supply (see Figure 6).

To wire the unit:

1. Connect the AC power cable to the PS-C25TB.
2. Connect the Controller Unit power input to the **SECURED CONTROLLER +V** and **(-)** terminals.
3. Connect both lock outputs to the **LOCK NC** or **NO** terminals as required.
4. [OPTIONAL] Connect the auxiliary relay.
5. [OPTIONAL] Connect the battery terminal to PM05 **BAT 12VDC** terminals (battery leads included).

> Note
> Do not use panic hardware with this device.

Figure 3. General Wiring Diagram

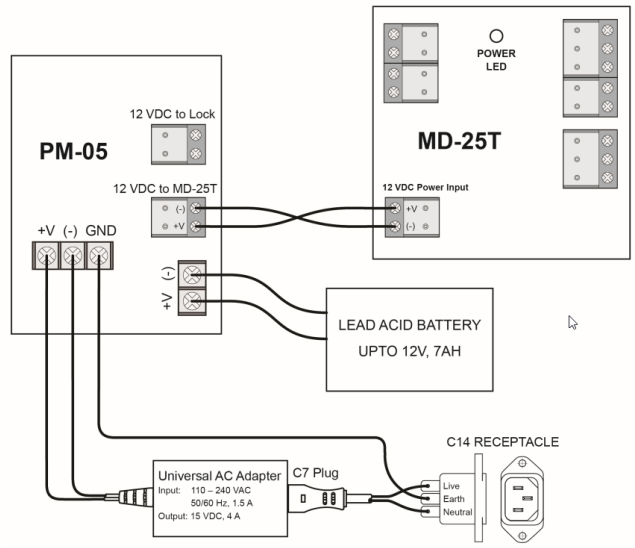


Figure 4. Secure Stand-Alone Controller Unit Wiring Diagram

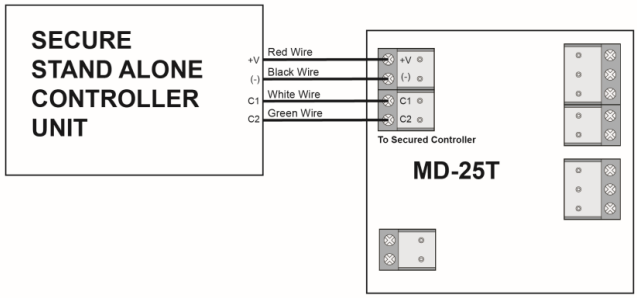


Figure 5. Lock and REX Switch Wiring Diagram

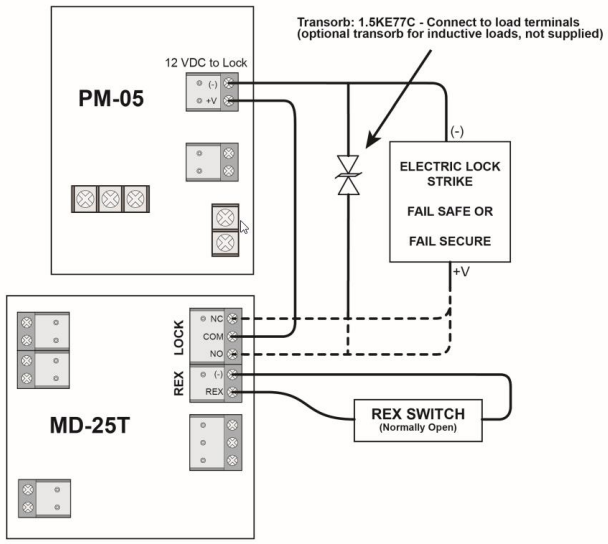
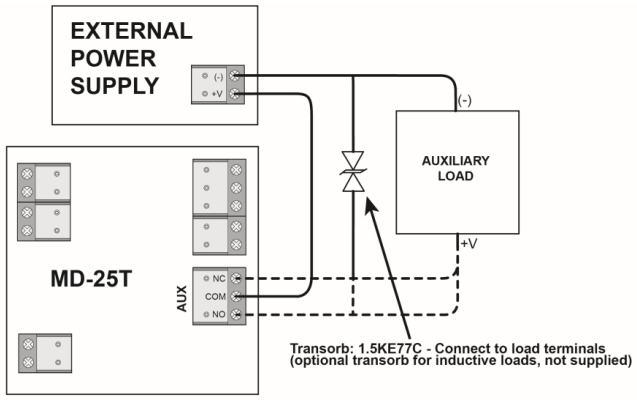


Figure 6. Auxiliary Load Wiring Diagram



4. Maintenance

For proper operation, the unit should be tested at least once a year.

4.1.1 Output Voltage Test

1. Check DC output for proper voltage level under normal load conditions.

4.1.2 Battery Test

1. Check specified voltage at the battery terminal and board **BAT 12VDC** terminals under normal load conditions.
2. Verify that the battery is fully charged and make sure there is no break in the battery connection wires.

> Note
> Maximum charging current under discharge is 1.2 A.

> Note
> Expected battery life is 5 years. However, it is recommended to change batteries within 4 years if needed.
> Dispose of used batteries according to manufacturer's instructions.

Limited Warranty

The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at www.rosslaresecurity.com.

Rosslare considers any use of this product as agreement to the Warranty Terms even if you do not review them.

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