

## Power Management 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: <ul style="list-style-type: none"> <li>• Red – power on</li> <li>• Off – power off</li> </ul>

### 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

## 3. Installation

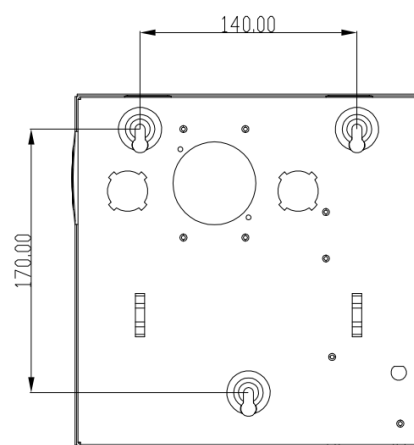
### 3.1 Mounting

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 PS-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

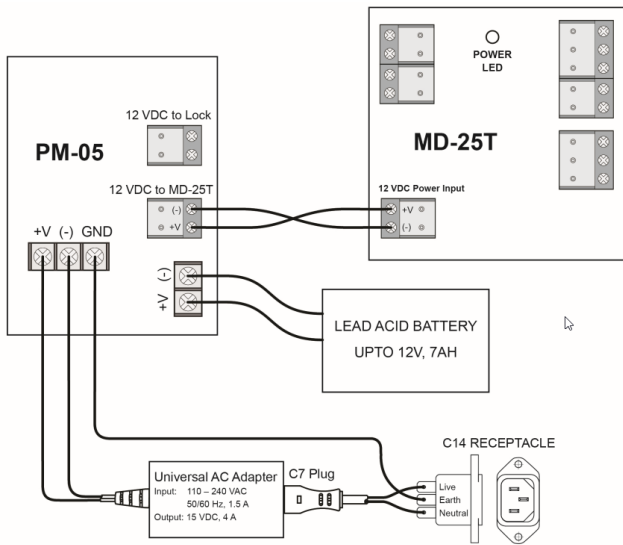


Figure 5. Lock and REX Switch Wiring Diagram

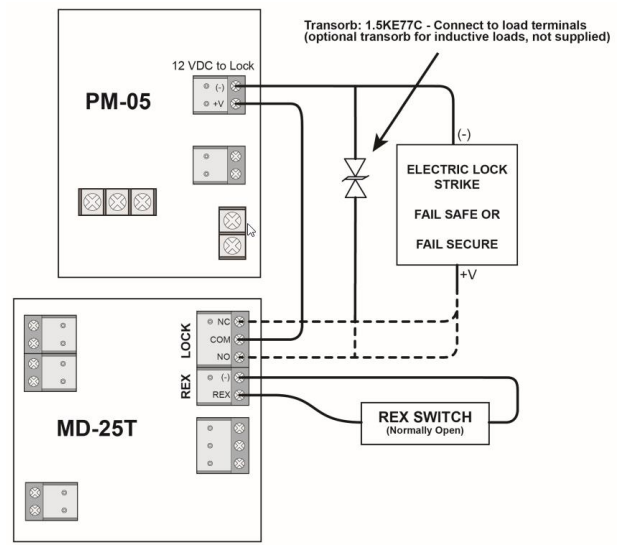


Figure 4. Secure Stand-Alone Controller Unit Wiring Diagram

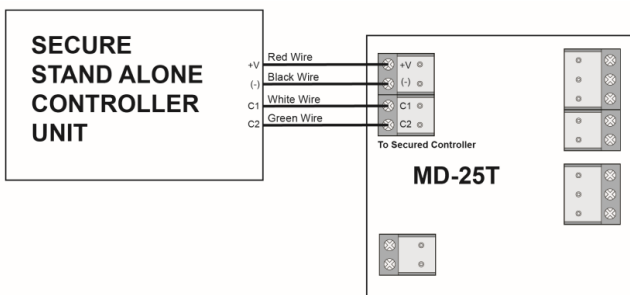
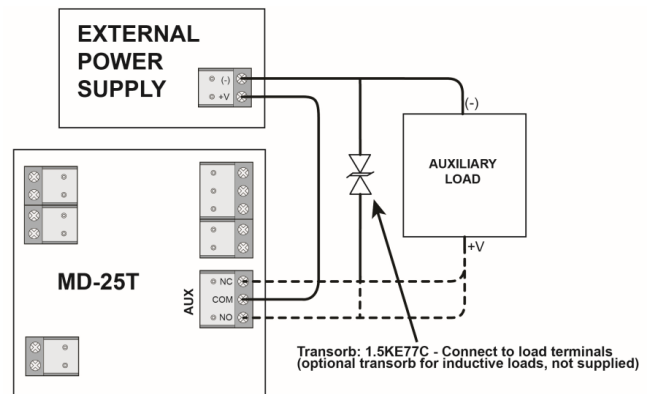


Figure 6. Auxiliary Load Wiring Diagram



## 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.

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## Limited Warranty

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The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at [www.rosslaresecurity.com](http://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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