



# OSMAC Satellite 220/240 VAC Operation Service Instructions

## Introduction

The OSMAC satellite is shipped from the factory configured for 120 VAC 50/60 Hz input. The OSMAC RDR unit can be converted to operate with 220/240 VAC 50/60 Hz input by changing the primary wiring on the RDR power transformer.

You will need the following tools and materials to complete this procedure:

- A medium size flat blade screwdriver
- A pair of wire strippers/crimpers
- (3) insulated wire splice connectors (code-approved)
- (1) section of insulated 1.0 mm<sup>2</sup> (16 AWG) wire, 30.5 cm (12") long



### WARNING

This equipment is configured at the factory for 120 VAC 50/60 Hz input power. **DO NOT** connect 220/240 VAC power to this device until it has been reconfigured for 220/240 VAC operation. Do not service this equipment unless all power to the device is disconnected. Failure to comply may result in electrical shock and/or fire hazard causing serious injury or death. Modifications to this equipment must meet all applicable electrical codes and be performed by qualified personnel only.

## Procedure

1. Ensure power to the OSMAC satellite is disconnected. See Warning above.
2. Unlock and open the RDR control unit.
3. Locate and remove two wire connectors from the black and white transformer primary wires. Refer to the transformer wiring diagram in **Figure 1** for the 120 VAC wiring configuration.
4. Using wire strippers, remove 19 mm (3/4") of insulation from the end of each wire.
5. Refer to the diagram in **Figure 2**. Using wire splice connectors (approved per local code), connect the top Black transformer wire to the Black wire from the power connection terminal block. Connect the White bottom transformer wire to the White wire from the terminal block. Connect the middle two White and Black transformer wires together.
6. Attach a 30.5 cm (12") length of 1 mm<sup>2</sup> (16 AWG) wire to terminal #1 of the decoder card and to the ground lug on the transformer mounting bracket.  
**Note:** The decoder card is located in the first compartment on the right-hand side of the RDR unit.
7. Carefully dress all wires and connectors into the RDR enclosure and Close cover.

Figure 1 – RDR Transformer Configured for 120 VAC Input

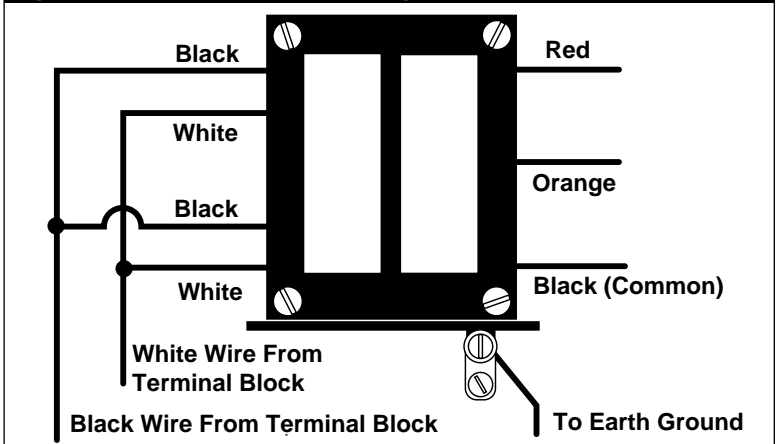


Figure 2 – RDR Transformer Configured for 220/240 VAC Input

