

## USAT VENDING MISER – VM170

This guide covers the major features of this product - it does not cover all of the available functions. This guide is not intended to replace the original equipment manual. Please refer to the manual for more detailed operating instructions and safety information.

### EQUIPMENT DESCRIPTION

The VendingMiser VM170 [1] is an energy saving device for cold drink vending machines. It uses a Passive Infrared Sensor (PIR) to power down the machine when the area surrounding it has been vacant for 15 minutes. Room temperature is monitored, and the machine is automatically keeps the product at an appropriate temperature.

The VendingMiser should not be used on machines containing perishable products (e.g. milk).

A VendingMiser Slave Unit can also be purchased that allows additional vending machines (up to four) to be controlled using a single PIR.



Figure 1: VendingMiser VM170

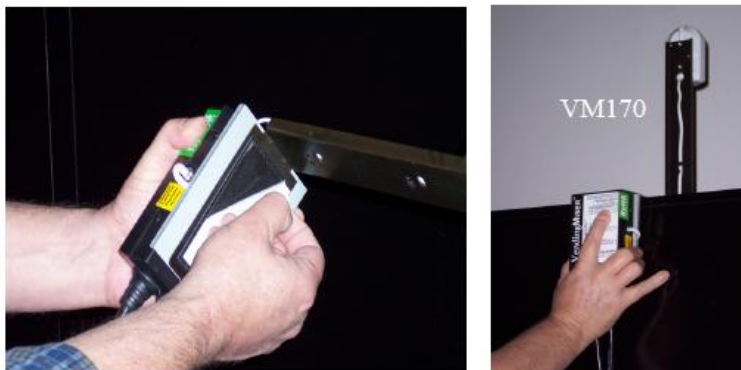
## INSTALLATION

1. Unplug the vending machine from the wall
2. Wipe down the back of the vending machine where the VendingMiser will be installed [2]



**Figure 2: Cleaning back of vending machine for VendingMiser installation**

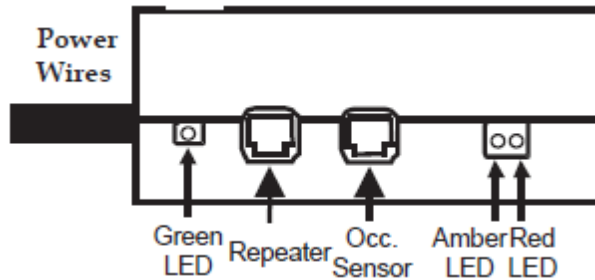
1. The VendingMiser will be placed at the top of the rear of the vending machine. Remove the white backing covering the adhesive and position it in the desired location [3]. Press firmly to be certain the adhesive has set.



**Figure 3: Installing VendingMiser**

2. Plug the vending machine power cord into the VendingMiser, and then plug the VendingMiser into the same outlet that the vending machine was originally plugged into
  - a. The vending machine should power up immediately.
  - b. The green LED [4] on the VendingMiser should flash twice to indicate the temperature sensor is functioning

- c. The amber LED [4] should turn on as the VendingMiser attempts to synchronize with the vending machine compressor. This will remain on until the vending machine compressor has gone through one full cycle.
- d. The red LED [4] should come on to indicate occupancy detection



**Figure 4: LEDs and Connectors on VendingMiser. The Repeater port will not be used in a basic installation**

- 3. The PIR should be tested (after allowing it to stabilize for several minutes) to ensure it is capable of detecting someone approaching the machine from all useable angles. The light on the PIR will flash when it detects motion within its field of view, and the red LED on the VendingMiser will flash 3 seconds later.
- 4. The first time the VendingMiser is installed, it will power down the vending machine after the occupancy sensor has not detected motion for a period of 2 minutes and the compressor synchronization has been completed (amber LED). The PIR can be covered to test this. Following this initial shut down, the VendingMiser will resume its normal 15 minute delay before shutting down.
- 5. If the VendingMiser is flashing all three LEDs, the PIR sensor is lit then the VendingMiser has failed.