

# **INSTRUCTION MANUAL**

## **WIRELESS LIGHT ACTIVATED MONITORING SYSTEM**

This system includes one light activated transmitter module and one or more receiver modules.

### **SETUP:**

**TRANSMITTER MODULE:** Insert the wall transformer into a 120VAC outlet and the cord into the jack in the transmitter module. Position the transmitter module so that the light sensor on the face of the module will pick up the light (must be incandescent light) that is to be monitored. This module is not sensitive to fluorescent light. It will tolerate some ambient light without being activated. If ambient light that occurs turns the module on, reposition the module or adjust the ambient light source. Place the transmitter module, for example, in a bathroom to activate receiver modules in other rooms when the bathroom light is turned on, and to deactivate them when the light is turned off.

**RECEIVER MODULE:** Insert the wall transformer into a 120VAC outlet and the cord into the jack in the receiver module. The receiver module may be set in any convenient location where the red LED light on its face, when activated, can be seen. Place the receiver modules, for example, in bedrooms or other rooms where individuals who would want to know whether the bathroom is occupied may be situated. (It being presumed that if the light is on, the bathroom is occupied. Users need to be instructed to always turn off the light when the bathroom is not in use)

### **OTHER:**

**CODING:** All transmitter modules and receiver modules are coded and are marked as to their code. They must be of the same code, for example, A, B, C, D etc. to operate. Coding enables the transmitters modules and their matching receiver modules to be used in close proximity to differently coded transmitter and receiver modules without interference with each other. Additional receiver modules, if purchased to add to the system, must be of the same code. Any number of receiver modules with the same code may be added and will function off a single transmitter module.

**CHECKING FOR PROPER FUNCTION OF THE TRANSMITTER MODULE:** The transmitter module can be easily tested to determine if it is properly placed to activate its signal when the light near it is turned on. With the transmitter module installed, place the receiver module in any location where it can be seen (it can be in the same room). Turn the light that activates the transmitter module on/off while watching to see that the red LED on the face of the receiver module responds by turning on and off.

**ADJUSTMENTS:** There are no adjustment features or switches. The modules should not be opened or disassembled. If not functioning, return the modules to Melstars, LLC. We reserve the right to repair or replace the modules or return the purchase price. Melstars will not be responsible for repair, replacement or refund if the modules show obvious signs of misuse or abuse. Modules are guaranteed for one year from date of purchase.

**WARNING:** The transmitter and receiver modules are each powered by a 120VAC/5.0VDC regulated wall transformer. In no event must the DC voltage exceed 5.0VDC or it will damage the transmitter or the receiver modules.

FCC COMPLIANCE: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Modifications not expressly approved by the manufacturer may void the user's authority to operate this device.

MELSTARS, LLC  
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MET is required to submit to the FCC all documentation submitted to MET for review. Because of this all **information may ONLY be supplied in the following formats: (All other formats will be rejected by the FCC)**

ASCII text  
Adobe Acrobat PDF  
JPEG Image  
Lotus 123  
MS Excel  
MS Word  
Word Perfect

H:\Emi\FCCLIST.WPD

### **Testing Lab Acceptance Criteria required by MET Laboratories, Inc.**

The criteria for accepting the work of another lab is as follows:

- 1) If accredited by Guide 25 for the EXACT testing being done than we will not require any other proof of competency and will review the Lab's submitted test data. If any concerns rise from the review of data they will be addressed at that time.
- 2) If the Lab has Guide 25 accreditation in EMC type testing, but not the exact tests for which the lab is submitting data, then the Engineer who will/has perform(ed) the testing will undergo an interview by a MET Engineer with specific interest in verifying an indepth understanding of the Section of the CFR to which the Engineer(s) will be testing
- 3) If the Lab has Guide 25 accreditation, but not in any EMC type testing, then MET will perform an interview with the Engineer(s) who will/has perform(ed) the testing with specific interest in verifying the use of proper test equipment and techniques as well as an indepth understanding of the Section of the CFR to which the Engineer(s) will be testing.
- 4) If the Lab has no Guide 25 accreditation, MET laboratories will perform an investigation, using Guide 25 as a checklist, to verify the lab is capable of performing the testing for which they intend to submit data. This investigation will include a study of the Lab's calibration, administration, quality control, technical knowledge and technical ability.

As a separate criteria for acceptance, the lab in question must supply its' site acceptance number issued by the FCC if the lab will be providing Radiated Emissions data.

Data will be present to MET in a test report in the following format:

- 1) The following information must preference all testing sent to MET for consideration:
  - a) Section of CFR to which the application for certification is being made
  - b) Name and address of the Laboratory performing the testing (FCC Site # if appropriate)
  - c) Name of the Engineer performing/responsible for testing
  - d) Manufacturer and Model of Equipment
  - e) Test Configuration Used
  - f) Justification for type of testing performed.
  - g) any Accreditations held by Lab performing test
  - h) List of equipment used during testing with calibration date and due date.
- 2) The following information must be present in each test section of the report
  - a) Technical Specification being tested to
  - b) Exact procedure used during testing
  - c) Any limits that may apply and the means by which they were determined
  - d) Verbal summation of the results of the testing
  - e) Any plots or tables that may graphically or tabularly represent the test data.