

# Environmental Monitoring System

## RMS 704 Wireless System



- 4 zones plus power fail and low battery.
- Wireless reporting no phone line needed.
- Weatherproof housing for outdoor mounting.
- Individually selectable N.O. or N.C. inputs.
- One minute delay on all reporting
- Two remote controllable relays.

### Description of device and operations

The RMS 704 tower light monitoring system provides off-site monitoring of four dry contact inputs plus A.C. power loss, daily communications test, low battery and "restore to normal" conditions. Two remote controllable relays included for interfacing to on-site equipment where a 2 amp dry contact or 12 V feed can be used. LEDs display all power, relay and input conditions.

The equipment is contained in a weatherproof ABS NEMA enclosure for outdoor or indoor mounting. There are ½ inch and ¾ inch conduit openings in the enclosure to permit wire entry. A 16VAC plug-in transformer to power the RMS 704 and a 7 AH, 12 volt rechargeable battery is supplied for backup power, providing continuous operation during power failures up to 48 hours. An integral temperature compensated power supply keeps the standby battery at optimum charge with rapid, current limited and voltage float charging. A low battery disconnect circuit removes the battery from the system on an extended power outage to avoid deep discharging of the battery.

All inputs are buffered through a one minute time delay to "Alarm" and one minute delay to "Normal" (selectable to 1 second). This eliminates the momentary signals generated by power fluctuations, rapid photocell operation and switchover transients. Each input can be selected for N.C. or N.O. input for "Normal" condition. Compression terminals are provided for all wiring. Any size wire, up to 12 ga. may be used for the power and monitored device connections.

## Specifications

### Electrical

AC Input Voltage:

16 VAC @ 40 watt plug-in transformer

Maximum AC Load:

30 watt maximum (20 watts nominal)

Detection Loops"

5 VDC buffered selectable N.O. or N.C., 2 ma with 1 minute or 1 second delay

Low Battery Disconnect:

Battery is automatically removed from the circuit when below 9.5v. System will not power up after disconnect until AC power is applied. Manual override button is provided.

Remote Output Relay:

Two web controllable relays, 2 amp S.P.S.T. Dry contact or 12 VDC out, selectable with pin jumpers.

### Mechanical

Housing:

Grey, weatherproof, lockable, NEMA, ABS enclosure with stainless steel hinges and hardware.

Size:

10.5 " wide x 12.5 " high x 7" deep

Weight:

16 lb, including battery and transformer (Shipping weight 18 lbs.)

Operating Temperature:

0-140 degrees F. (-17 to 50 degrees C)

Included Materials:

Battery, Transformer, Installation manual, warning decal, 15 feet of 5 conductor hookup cable, screwdriver.

### General

Status Display:

LEDs indicate zone status and reporting status for each zone, AC power, full charge indication (Battery above 75%), and relay(s) activated.

Warranty:

One year parts and labor. See separate warranty statement for complete details.



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