Limited Warranty & Limitation of Liability

BW Technologies LP (BW) warrants this product to be free from defects in material and workmanship under normal use and service for a period of two years, beginning on the date of shipment to the buyer. This warranty extends only to the sale of new and unused products to the original buyer. BW’s warranty obligation is limited, at BW’s option, to refund of the purchase price, repair, or replacement of a defective product that is returned to a BW authorized service center within the warranty period. In no event shall BW’s liability hereunder exceed the purchase price actually paid by the buyer for the Product.

This warranty does not include:

a) fuses, disposable batteries or the routine replacement of parts due to the normal wear and tear of the product arising from use;
b) any product which in BW’s opinion, has been misused, altered, neglected or damaged by accident or abnormal conditions of operation, handling or use;
c) any damage or defects attributable to repair of the product by any person other than an authorized dealer, or the installation of unapproved parts on the product; or

The obligations set forth in this warranty are conditional on:

a) proper storage, installation, calibration, use, maintenance and compliance with the product manual instructions and any other applicable recommendations of BW;
b) the buyer promptly notifying BW of any defect and, if required, promptly making the product available for correction. No goods shall be returned to BW until receipt by the buyer of shipping instructions from BW; and
c) the right of BW to require that the buyer provide proof of purchase such as the original invoice, bill of sale or packing slip to establish that the product is within the warranty period.

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Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer. If any provision of this warranty is held invalid or unenforceable by a court of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision.
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Safety Information – Read First

IMPORTANT

Use the remote alarm only as specified in this manual, otherwise the protection provided by the instrument may be impaired.

Read the **Warnings** and **Cautions** on the following pages before using the remote alarm.

⚠️ **Note**

This instrument contains batteries. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler.

⚠️ **Cautions**

- Install in ordinary locations only.
- Do not use the remote alarm if it or any system components are damaged. Inspect the system on a regular basis and keep a log.
- If the remote alarm is damaged or something is missing, contact **BW Technologies by Honeywell** immediately.
- When installing cables, ensure they are protected from possible damage. Secure the cable(s) in place and fasten any excess. Do not exceed a 65° bend allowance when installing the cables.
- Ensure all plug-in connectors are clean and fully seated when installing them.
- Confirm the weatherproof ring on the connector(s) is fully screwed down.
- Confirm all ports not in use are fully screwed down and have cover caps installed.
- Ensure the latch on the external hinged door is fully engaged and the handle has been turned the full 180 degrees to complete the weather seal.
- Do not expose the unit to electrical shock and/or severe mechanical shock.
- Use only parts specifically designed for the Rig Rat III Remote Alarm system. Refer to **Replacement Parts and Accessories**.
- Do not allow liquids to condense and/or use high power sprays on the instrument.
- Do not attach system components that do not meet specified criteria (such as alarms, relays, cabling, etc.).
- Electromagnetic interference (EMI) signals may cause incorrect operation of the remote alarm.
- Do not attempt to disassemble, adjust, or service the units unless instructions are provided in the manual for that procedure and/or that part is listed as a replacement part. Use only BW parts.
- The remote alarm warranty will be void if the unit is disassembled, adjusted, or serviced by non-BW Technologies by Honeywell personnel.

**CAUTION:** FOR SAFETY REASONS THIS EQUIPMENT MUST BE OPERATED AND SERVICED BY QUALIFIED PERSONNEL ONLY. READ AND UNDERSTAND INSTRUCTION MANUAL COMPLETELY BEFORE OPERATING OR SERVICING.

**Contacting BW Technologies by Honeywell**

To contact BW Technologies by Honeywell, call:

- USA: 1-888-749-8878
- Canada: 1-800-663-4164
- Europe: +44 (0) 1295 700300
- Other countries: +1-403-248-9226

Address correspondence to:

**BW Technologies by Honeywell**

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Calgary, AB T2A 7X9
CANADA

Email us at: info@bwtnet.com
Visit BW Technologies by Honeywell’s website at: www.gasmonitors.com
Introduction

⚠️ Warning: To ensure your personal safety, read the Safety Information before using the remote alarm.

The Rig Rat III Remote Alarm (“the remote alarm”) is a wireless accessory designed to provide remote alarm indications for up to four Rig Rat III Detectors. It is equipped with a 160,000 candlepower strobe and/or a 105 dB siren.

The remote alarm is an area safety device. It is your responsibility to respond properly to the remote alarm.

Getting Started

The items listed below are included with the remote alarm. If the remote alarm is damaged or something is missing, contact the place of purchase immediately.

- 5 dBi antenna
- Mounting flanges
- Slot-regular screwdriver
- Rig Rat III Remote Alarm User Manual

To order replacement parts, refer to Replacement Parts and Accessories.

Note: An antenna and antenna cable are needed to operate the remote alarm. To order the antenna, antenna cable, or any replacement part, refer to Replacement Parts and Accessories.

To become familiar with the features and functions of the remote alarm, review the following figures and tables:

- Figure 1 and Table 2 describe the remote alarm’s main external components.
- Figure 2 and Table 3 describe the remote alarm’s main internal components.
- Figure 3 and Table 4 describe the remote alarm’s circuit board components.
- Figure 4 and Table 5 describe the remote alarm’s LED indicator.
- Table 6 describes the remote alarm’s power switch.

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Description</th>
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<tr>
<td>RR3-WRHS</td>
<td>160,000 Candlepower Receiver Strobe with 112dB Siren Alarm for Rig Rat III</td>
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Table 2. The Rig Rat III Remote Alarm

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
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<tbody>
<tr>
<td>1</td>
<td>Antenna</td>
</tr>
<tr>
<td>2</td>
<td>Strobe</td>
</tr>
<tr>
<td>3</td>
<td>Mounting flange</td>
</tr>
<tr>
<td>4</td>
<td>LED indicator</td>
</tr>
<tr>
<td>5</td>
<td>Siren</td>
</tr>
<tr>
<td>6</td>
<td>Charger port</td>
</tr>
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</table>

Table 3. Internal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Circuit board</td>
</tr>
<tr>
<td>2</td>
<td>Battery</td>
</tr>
</tbody>
</table>
Table 4. Circuit Board

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heat sink</td>
</tr>
<tr>
<td>2</td>
<td>LED indicator</td>
</tr>
<tr>
<td>3</td>
<td>Transceiver</td>
</tr>
<tr>
<td>4</td>
<td>Receiver channel A</td>
</tr>
<tr>
<td>5</td>
<td>Sync. source switch</td>
</tr>
<tr>
<td>6</td>
<td>Receiver channel B</td>
</tr>
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<td>7</td>
<td>Siren alarm indicators</td>
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<tr>
<td>8</td>
<td>Strobe alarm indicators</td>
</tr>
<tr>
<td>9</td>
<td>Power switch</td>
</tr>
<tr>
<td>10</td>
<td>Fuse (F2)</td>
</tr>
<tr>
<td>11</td>
<td>Fuse (F1)</td>
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Figure 3. Circuit Board
Table 5. LED Indicator

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>External power LED</td>
</tr>
<tr>
<td>2</td>
<td>Receive mode LED</td>
</tr>
<tr>
<td>3</td>
<td>Designated detector LED</td>
</tr>
<tr>
<td>4</td>
<td>Designated detector LED</td>
</tr>
<tr>
<td>5</td>
<td>Designated detector LED</td>
</tr>
<tr>
<td>6</td>
<td>Designated detector LED</td>
</tr>
<tr>
<td>7</td>
<td>Battery power LED</td>
</tr>
<tr>
<td>8</td>
<td>Transmit mode LED</td>
</tr>
</tbody>
</table>

Table 6. Switch

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
</tr>
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</table>
| POWER  | • To activate the remote alarm, toggle the **POWER** switch to ON.  
|        | • To deactivate the remote alarm, toggle the **POWER** switch to OFF. |
Installation

Guidelines

⚠️ Caution: Qualified personnel should perform the installation according to applicable electrical codes, regulations, and safety standards.

When installing the remote alarm, adhere to the following guidelines:

• This system is rated for General Purpose Area installation only.

• A circuit breaker is included in the building installation as a disconnect device for the equipment. The circuit breaker is installed in close proximity to the equipment and is marked as a disconnecting means for the equipment.

• The terminals for all external circuits are only used with equipment that have no live parts that are accessible.

Installation Location

Radio signals transmit well over flat terrain and open water. However, buildings, metal tanks, and other obstructions can interrupt radio transmissions.

When determining a location for the detector, consider

• the terrain,

• obstructions (such as buildings and metal tanks),

• line-of-sight to the controller antenna (if used with a controller), and

• radio frequency interference (RFI).

When selecting a location to install the remote alarm, do not place it where it can be exposed to electrical shock and/or severe mechanical shock.

Read Antenna Installation prior to determining the location for installing the remote alarm.
Mounting the Remote Alarm

Note: As there are a variety of surfaces where the remote alarm can be mounted, retaining screws are not provided.

Install the remote alarm vertically with the antenna pointing upwards only.

The remote alarm is equipped with pre-drilled mounting flanges for permanent installation. The required minimum/maximum clearances are as follows:

- Maintain a minimum clearance of 0.38 in. (0.95 cm) below and from each side of the remote alarm.
- Maintain a maximum 65° bend allowance for all cables connected to the remote alarm.

Refer to Figure 5 and Figure 6.

Antenna Location

When determining a location for the antenna, it is important to notice your surroundings. Several factors should be considered when determining a location for the antenna.

- The terrain,
- clear line-of-sight between the antenna of the controller and the remote alarm,
- clear line-of-sight between the antenna of the detector and the remote alarm, and
- the proximity to any radio frequency interference (RFI).

BW recommends the following when determining a location for the antenna:

- Do not locate the antenna near water.
- Ensure the antenna is as high and clear of surrounding objects as possible.
- The remote alarm’s antenna should be placed as far as possible from other antenna systems to avoid possible RFI.
⚠ Warning: Use extreme caution when working near telephone and electrical power lines. Always mount antennas at least three feet away from power lines.

*Note: Atmospheric conditions may cause signal loss.*

**Antenna Installation**

The remote alarm is equipped with a TNC connector for a 5 dBi antenna. Extension cable and higher gain antenna are available when the antenna needs to be separate from the remote alarm. For transmission distances, refer to Specifications and any applicable accessory manuals.

Antenna cable lengths must be less than 20 ft./6 m. For greater transmission distances, use a heavier cable such as the LMR 400. Refer to Replacement Parts and Accessories.

*Note: The use of mating connectors to extend cable lengths is not recommended.*

Connectors cause signal strength loss

**Wiring**

The remote alarm should be powered by a minimum 3 conductor AWG 18 wire with a flexible cord suitable for area use depending on the local regulatory requirements.

AC power is required to operate the remote alarm. Set the power switch to the applicable voltage.

*Note: The remote alarm's back up batteries trickle charge from the main power.*

The battery is for back-up only. The remote alarm should be powered by an AC power source or solar panels.
Digitally coded information is received via a 2.4 GHz radio using Frequency Hopping Spread Spectrum (FHSS) technology. Coding is easily changed on the site to meet changing requirements (e.g., moving alarms, adding detection points, and/or changeover of equipment).

Complete the following instructions in the order presented to configure the controller, detector, and remote alarm:

1. **Configuring the Rig Rat III Controller**
   
   a) Deactivate the controller.
   
   b) The controller transceiver receives if the detector channel rotary switch is positioned to channel 0. Confirm the detector channel is set to 0. Use a slot-regular screwdriver to position the detector channel.
   
   c) The transceiver channel is selected from 00 to 3F (AB combination) and must be identical to the transceiver channel of all the detectors. Match all detectors transceiver channel codes to the controller’s transceiver channel code.
   
   d) Activate the controller.
### Table 7. Transceiver and Detector Channel Example

<table>
<thead>
<tr>
<th>Transceiver Channel</th>
<th>Detector Channel</th>
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<tr>
<td>Controller</td>
<td>00</td>
</tr>
<tr>
<td>Detector 1</td>
<td>00</td>
</tr>
<tr>
<td>Detector 2</td>
<td>00</td>
</tr>
<tr>
<td>Detector 3</td>
<td>00</td>
</tr>
<tr>
<td>Detector 4</td>
<td>00</td>
</tr>
</tbody>
</table>

#### Figure 8. Transceiver

2. **Configuring the Rig Rat III Remote Alarm**
   
a) Deactivate the remote alarm.

b) Using a slot-regular screwdriver, position the A and B rotary switches of the receiver channel to the same combination as the transceiver channel of the controller.

c) Position the Sync Source switch to the OFF position.

d) Activate the remote alarm.

3. **Configuring the Rig Rat III Detector**
   
a) Deactivate the detector.

b) Using a slot-regular screwdriver, position the detector’s channel rotary switch to the desired channel. The detector channel can be selected from 1 to 4. If multiple (maximum of four) detectors are in use, ensure each channel selected is different from one another.

c) Position the A and B rotary switches of the transceiver channel exactly the same combination as the transceiver channel of the controller.

d) Activate the detector.

e) Perform a system test for each connected detector. Refer to System Test.

#### System Setup

Detector 1, detector 2, detector 3, and detector 4 are less than 1.8 mi. (3 km) from the remote alarm and controller.

The Sync Source switch of the remote alarm must be switched to OFF.
Remote Alarm in Master Mode

Complete the following instructions in the order presented to configure the controller, detector and remote alarm:

1. **Configuring the Rig Rat III Remote Alarm**
   a) Deactivate the remote alarm.
   b) Using a slot-regular screwdriver, position receiver channel A and B rotary switches to any combination ranging from 00 (AB) to 3F (AB).
   c) Position the Sync Source switch to the ON position.
   d) Activate the remote alarm.

2. **Configuring the Rig Rat III Controller**
   a) Deactivate the controller.
   b) Using a slot-regular screwdriver, position the detector channel rotary switch to F.
   c) Position transceiver channel A and B rotary switches to the same combination as the receiver channel of the remote alarm.
   d) Activate the controller.
3. Configuring the Rig Rat III Detector
   a) Deactivate the detector.
   b) Using a slot-regular screwdriver, position the detector channel rotary switch to the desired channel. The detector channel can be selected from 1 to 4. If multiple (maximum of four) detectors are in use, ensure each channel is different from one another.
   c) Position transceiver channel A and B rotary switches to the same combination as the receiver channel of the remote alarm.
   d) Perform a system test for each connected detector. Refer to System Test.
   e) Activate the detector.

System Setup
Detector 1, Detector 2, Detector 3, and Detector 4 are less than 1.8 mi. (3 km) from the remote alarm.
The Sync Source switch of the remote alarm must be positioned to ON.

Operation
Activating the Remote Alarm
To activate the remote alarm, open the enclosure and toggle the power switch to ON.

All seven LEDs light green then red. The EXT LED lights green. The RXD LED blinks red and then lights solid green.

LED Display
The remote alarm has seven bi-color LED indicators to display the status of the power source, transceiver, and the detector channel.

Ext: The Ext LED displays the status of the external power source. The external power source can be a solar panel or a DC charger.
   • The Ext LED blinks green when the battery is charging.
   • The Ext LED is solid green when the battery is fully charged and trickle charging.

Bat: The Bat LED displays the status of the rechargeable battery.
   • The Bat LED is solid red when the battery is fully charged.
   • The Bat LED blinks red when the battery is low and requires charging.
   • The Bat LED blinks red twice a second when the remote alarm is disabled due to low battery. If an external power source is connected, the remote alarm remains disabled until the remote alarm is deactivated and then reactivated.

Rx d: The Rx d LED displays the status of the transceiver.
   • The Rx d LED blinks red when the transceiver is out of range of the controller or detectors. This occurs when the remote alarm is in slave mode (Sync Source is OFF).
   • The Rx d LED is solid green when the transceiver is in normal operation.
   • The Rx d LED blinks orange when the transceiver fails initialization.
Channel 1 to Channel 4: The channel LEDs displays detector status.

The channel LEDs identify which detector is transmitting data or which detector has lost communication with the remote alarm. Loss of communication with the detector depends on its transmit time interval and loss of transmission time interval. Refer to the Rig Rat III Detector User Manual.

- The channel LED is solid red when the remote alarm receives a low, high, or fault alarm from the corresponding detector.
- The channel LED is solid orange when the remote alarm loses communication with the corresponding detector.
- The channel LED is unlit when the remote alarm is in standby to receive data from the corresponding detector.
- The channel LED blinks green when the remote alarm receives information from the corresponding detector.

Alarms

If an alarm condition occurs, the strobe and/or siren will not deactivate until the alarm condition no longer exists.

The remote alarm is shipped with all alarm indicators activated.

Setting Alarm Indicators

Siren and strobe indicators can be set for low alarm, high alarm, fault, and RF out.

A low alarm indicates the ambient gas level is above the low alarm setpoint.

A high alarm indicates the ambient gas level is above the high alarm setpoint.

A fault alarm indicates no communication between the detector and alarm because the detector has disconnected from its sensor.

An RF out alarm indicates no communication between the controller and remote alarm.

To activate the alarm indicator for a condition, toggle the switch to the ON position. Refer to Figure 10.

To deactivate the alarm indicator for a condition, toggle the switch to the OPEN position. Refer to Figure 11.

Independent Power

The detector and rechargeable option devices use the same low maintenance batteries.

The power options that are provided enable the detector to

- operate from the internal battery, or
- trickle charge the system for maintenance-free operation.

Trickle Charge Options

- Solar power 5, 10, 20, or 30 watt panels
- 24 Vdc direct line power
- Certified line source
Battery Life
Battery life is also dependant upon the following:

- In a line or solar powered situation, the battery provides the backup in the event of a power interruption.

Battery Level
Refer to LED Display.

Line Power
\(\text{\textbullet} \text{ Caution: Only qualified personnel should perform power installations. Installations must be performed according to applicable electrical codes, regulations, and safety standards.}\)

Installation: 24 Vdc direct and AC line power.

The detector and all BW rechargeable option devices can be trickle charged directly using line power (24 Vdc, 115, and 230 Vac).

Charger Power
BW recommends installing a charger: Solar panels or 110/220 Vac or 24 Vdc direct line chargers.

Backup Battery Power
In the event of a main power failure, the remote alarm temporarily runs from the backup battery.

Note: The remote alarm’s backup batteries are trickle charged from the main power.

Backup batteries provide 2-3 hours operating power for a remote alarm.

Maintenance
The remote alarm is designed to provide years of service with regular care and minimal maintenance. At regular intervals, inspect the instrument and ensure it is operating normally.

System Components: All electronics are sealed in weatherproof enclosures. However, regular maintenance is required for all system components. Visually inspect and test regularly to ensure optimum performance.

To clean the remote alarm’s exterior, wash it with mild soap and clean water.

Replacing a Fuse
To replace a blown fuse, complete the following steps:

1. Deactivate the remote alarm.
2. Remove the blown fuse with pliers.
3. Install the new fuse.

Replacing a Transceiver
To replace a transceiver, complete the following steps:

1. Deactivate the remote alarm (if applicable).
2. Unplug the cable connecting the transceiver to the circuit board.
3. Unscrew the four screws securing the transceiver to the circuit board.
4. Remove the transceiver by pulling vertically.
5. Insert the new transceiver. Ensure the transceiver’s connectors are aligned with the port.

6. Secure the transceiver to the circuit board with four screws.

7. Attach the cable to the transceiver.

8. Test the system. Refer to System Test.

Storage and Transporting

BW batteries have a low rate of self discharge. Therefore, the battery powered instruments can be used irregularly or can be stored for long periods of time.

When storing or transporting battery powered equipment, be aware

- the equipment must be stored in a warm area as freezing the electrolyte damages the battery (as the battery discharges, the battery freezing point rises),

- the rate of discharge varies with storage temperature,

- higher temperatures result in a faster discharge rate, which reduces the time the equipment can be stored,

- the battery level should not drain below 50% of the fully charged state, and

- the battery will discharge to 50% of its fully charged capacity after one year approximately.

Prior to Storage or Transporting

⚠️ Caution: Completely discharged batteries must be charged within 30 days.

Adhere to the following:

- If the battery is completely discharged for a long period of time, cycle charge the unit several times to restore function.

- Ensure the equipment is fully charged before returning to service. Depending upon the conditions, cycle charging may restore up to 75% of full charge.

- Ensure all instruments are fully charged before storing or transporting.

To prepare equipment for storage or transport, complete the following:

1. Deactivate the required equipment.

2. Create a record of the current connections. This ensures the equipment is reassembled correctly.

3. Disconnect the following from the detector:
   - Charger
   - Cables

4. Replace the cover cap for the port located on the bottom of the remote alarm.

5. Loosely coil and secure all cables to prevent damage.
System Test

A system test is recommended when

- commissioning the remote alarm,
- initially activating the remote alarm,
- moving the remote alarm, or
- modifying the system.

The test ensures the communication path between the controller, remote alarm, and detector(s) is established.

Each connected detector must be tested individually.

Complete the following steps to initiate a system test:

1. Activate the controller and enable all channels (if the controller is part of the system).
2. Activate the remote alarm and wait until the Rxd LED is solid green, indicating normal operation.
3. Activate the detector and wait until the LCD test is complete.
4. Press \texttt{XMTR TEST} on the detector. The detector’s LCD displays \texttt{rF tst} and counts down from \texttt{999 999} to \texttt{000 000}.
5. Ensure the controller’s LCD is also displaying the countdown. Ensure the remote alarm’s Rxd LED is solid green and the channel LED of the corresponding detector is flashing green to indicate it is receiving data.

If the detector displays \texttt{rF Out}, the detector is not synchronizing with the controller. The detector may be out of range of the controller, or the detector’s transceiver channels do not match the controller’s transceiver channels.

If the remote alarm’s Rxd LED blinks red, the remote alarm is not synchronizing with the controller. The remote alarm may be out of range of the controller or the remote alarm’s transceiver channels do not match the controller’s transceiver channels.

The antenna of the remote alarm and detector must be relocated if they are out of range. Refer to Antenna Installation.
Troubleshooting

If you encounter a problem, follow the solutions listed in the table below. If you still are unable to correct the problem, contact BW Technologies by Honeywell.

### Table 8. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>All LEDs are unlit when the remote alarm is activated.</td>
<td>Blown F2 fuse.</td>
<td>Refer to <a href="#">Replace F2 fuse</a>.</td>
</tr>
<tr>
<td></td>
<td>Depleted battery.</td>
<td>Charge the battery.</td>
</tr>
<tr>
<td>The battery is depleted and the BAT LED remains unlit when the external power source is disconnected and reconnected.</td>
<td>Blown F1 fuse.</td>
<td>Refer to <a href="#">Replace F1 fuse</a>.</td>
</tr>
<tr>
<td>Channel LED is solid orange.</td>
<td>The remote alarm’s receiver channel is different from detector’s transceiver channel.</td>
<td>Match the receiver channel of the remote alarm and the transceiver channel of the detector.</td>
</tr>
<tr>
<td></td>
<td>There is an obstruction between the detector and the remote alarm.</td>
<td>Use the antenna cable to relocate the antenna of the detector to avoid obstruction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use a high gain antenna.</td>
</tr>
<tr>
<td>RXD LED is continuously blinking red.</td>
<td>The remote alarm’s receiver channel is different from the controller’s transceiver channel.</td>
<td>Match the receiver channel of the remote alarm and the transceiver channel of the controller.</td>
</tr>
<tr>
<td></td>
<td>There is an obstruction between the remote alarm and the controller.</td>
<td>Use the antenna cable to relocate the antenna of the remote alarm to avoid the obstruction.</td>
</tr>
<tr>
<td>RXD LED is continuously blinking orange.</td>
<td>The transceiver of the remote alarm is damaged.</td>
<td>Refer to <a href="#">Replace the transceiver</a>.</td>
</tr>
</tbody>
</table>
Replacement Parts and Accessories

⚠️ Warning
To avoid personal injury or damage to the remote alarm, use only the specified replacement parts.

To order parts or accessories listed in the table below, contact BW Technologies by Honeywell.

Table 9. Replacement Parts and Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR-RTD-1</td>
<td>Transceiver assembly for Rig Rat III Remote Alarm</td>
<td>1</td>
</tr>
<tr>
<td>RR-FK1</td>
<td>Replacement fuse-500mA for Rig Rat III Remote Alarm</td>
<td>8</td>
</tr>
<tr>
<td>SP-U320-S</td>
<td>Stainless steel 20 watt solar panel</td>
<td>1</td>
</tr>
<tr>
<td>SP-U330-S</td>
<td>Stainless Steel 30 watt solar panel</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Supply Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR-C300</td>
</tr>
<tr>
<td>UR-S600</td>
</tr>
<tr>
<td>UR-TC10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transmitting Antennas</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR-AN5</td>
</tr>
<tr>
<td>RR-AC50</td>
</tr>
<tr>
<td>RR-AC100</td>
</tr>
</tbody>
</table>

Specifications

Instrument Dimensions: 30.48 x 25.40 x 15.24 cm (12 x 10 x 6 in.)

Weight: 25.00 lb (11.34 kg)

Enclosure: Fiberglass solid cover type 4x

Operating Temperature: -40°C to +50°C (-40 to +122°F)
Battery backup: -20°C to +50°C (-4°F to +122°F)
Transceiver: -40°C to +80°C (-40°F to +176°F)

Storage Temperature: -20 to +75°C (-4°F to +167°F)

Operating Humidity: 10% to 90% relative humidity (non-condensing)

Certified external power source: Solar panel or DC charger 16V-30 Vdc, minimum 600 mA output current

Transceiver Power Consumption: 150 mA (typical)

Transceiver Output Power: 200mW (typical)

Battery: One 12 Ah sealed lead acid battery
80 hours in normal operation (no alarm)
70 hours in continuous alarm (siren only)
18 hours in continuous alarm (strobe only)
17 hours in continuous alarm (siren and strobe)

RF Frequency: 2.402 – 2.478 GHz Frequency Hopping Spread Spectrum (FHSS)

RF Transmission Distance: 3 km (1.8 miles)

Alarm Conditions: Low alarm, high alarm, fault, and loss of transmission alarm

Audible Alarm: 112dB siren alarm

Visual Alarm: 160,000 candlepower receiver strobe

Altitude: 2000 m

Pollution Degree: 2

Installation Category: I

Approved: AC power installations require a limited circuit. AC power should be provided through a fuse that limits the current.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules and ICES-003 Canadian EMI requirements. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Rig Rat III Remote Alarm

Wireless Strobe and/or Siren for Rig Rat III

User Manual