Remote Infrastructure Management (RIM-750) System from Chatsworth Products (CPI) provides remote monitoring of environmental sensors for a single server cabinet or a small computer or telecommunications equipment room. RIM-750 is easy to setup and use, providing web access to a dashboard for monitoring real-time conditions and email notifications when conditions exceed user-defined thresholds. Use RIM-750 to provide critical early warning when site conditions change.

The RIM-750 is a compact appliance that has multiple inputs for monitoring a wide range of conditions. There are four inputs for temperature and temperature/humidity sensors, eight digital inputs for dry contact sensors, and a single input for leak detection. Use the digital inputs to monitor magnetic door sensors, motion sensors, a smoke detector, or summary alarms from other equipment. The leak detection connection supports a single zone with up to 200 feet (60 meters) of Sensor Rope. There is also a single relay output (NO/NC) that can be triggered by one of the inputs.

RIM-750 has a simple, intuitive web based interface for easy setup and monitoring. The main dashboard displays all sensor conditions in a single view: temperature data in gauges, digital inputs as red/green status buttons, a checkmark or warning for leak detection, an open/close status of the relay, and a window for displaying images from up to four web cameras. RIM-750 also summarizes events and logs and displays temperature and humidity sensor data in a line graph on the main page so you can see trends. For sensors and inputs, you select the alarm condition and how to respond to an alarm with a sound, light, email and/or by enabling the relay. For leak detection, you can also set sensitivity and monitor for both leak and cable break. You can also export temperature and humidity sensor log data with a single click as a text file with comma-separated values.

For notifications, you can designate a single email address for alarms, which are sent through your SMTP server, or forward alarms as SNMPv2 traps or Modbus/TCP to other facility management systems. RIM-750 is an excellent choice for monitoring a single cabinet or a small equipment room. Consider the RIM-1000 if you need to monitor more sensors or a larger space.

See inside for product details or contact CPI Technical Support for configuration assistance.
SPECIFICATIONS

• Includes:
  - 1 x RIM-750
  - 1 x network cable, 3.3 ft (1m) long
  - 1 x USB power adapter with USB mini B to USB A cable

• Power:
  - USB mini-B power inlet, (US) 5VDC @ 500mA max.
  - Includes a 110/240VAC 50/60Hz; Wall adapter to USB connector
  - Power with included wall adapter or from USB port with 5VDC @ 500mA max. output

• Wired Inputs:
  - Temperature/Humidity: 4 each, 1-wire digital temperature or 1-wire digital temperature/humidity sensor inputs; plug-and-play, configurable alarm points
  - Digital: 8 each, digital alarm points; configurable
  - Leak Detection: 1 each, zone leak detection, supports 200 ft (60 m) of conductive fluid Sensor Rope; Leak Detection Lead Cable and Sensor Rope(s) must be ordered separately

• Relay Output:
  - 1 each, Form C summary relay; 2A @ 30VDC, 0.5A @ 125VAC; configurable as summary alarm output or manual operation

• Alarm Notification:
  - Panel: Audible alarm, visible LED
  - Integrated Web Interface: Dashboard overview with alarm indicators
  - Email: up to 8 email recipients; email sent on alarm to all recipients, distribution list, or email to SMS
  - SNMP Traps: Multiple community strings
  - Relay: 1 Form C summary relay output

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Shipping Weight</th>
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<tbody>
<tr>
<td>60100-001</td>
<td>RIM-750, with 4 Temperature/Humidity inputs, 8 digital inputs, 1 leak detection input, 1 relay output, black</td>
<td>2 (0.9)</td>
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<tr>
<td>60100-002</td>
<td>RIM-750 and Leak Detection Kit Bundle, includes 1 RIM-750 with a Leak Detection Lead Cable and 200’ (60 m) of Leak Detection Sensor Rope</td>
<td>9 (4.1)</td>
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</table>

Note: Leak Detection Lead Cable and Leak Detection Sensor Ropes can also be ordered separately.
Rack Mount Bracket
- Holds two RIM-750 units
- 1U x 19"EIA x 3"D (76 mm)
- Black Finish

<table>
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<th>Description</th>
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<tbody>
<tr>
<td>60107-001</td>
<td>Rack Mount Bracket, 1U x 19&quot;EIA x 3&quot;D (76 mm)</td>
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Temperature Sensor
Use the Temperature Sensor to take temperature measurements close to the RIM-750. The Temperature Sensor attaches to one of the four Temperature/Humidity inputs on RIM-750.
- Sensor Type: Temperature
- Connector: RJ11
- Cable Length: 25'L (7.6 m)
- Operating Temperature: -67°F to 257°F (-55°C to 125°C)
- Temperature Accuracy: ±0.125°

<table>
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<th>Description</th>
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<td>60108-001</td>
<td>Temperature Sensor, RJ11, 25'L (7.6 m) cord</td>
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</table>

Temperature and Humidity Sensor
Use the Temperature and Humidity Sensor to take temperature and humidity measurements close to the RIM-750. The Temperature and Humidity Sensor attaches to one of the four Temperature/Humidity inputs on RIM-750.
- Sensor Type: Temperature and humidity
- Connector: RJ11
- Cable Length: 25'L (7.6 m)
- Operating Temperature: -40°F to 185°F (-40°C to 85°C)
- Temperature Accuracy: ±0.125°
- Humidity: 5% to 95% RH, non-condensing

<table>
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<tr>
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<tr>
<td>60108-002</td>
<td>Temperature and Humidity Sensor, RJ11, 25'L (7.6 m) cord</td>
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Leak Detection Lead Cable
Leak Detection Lead Cable is used to attach Leak Detection Sensor Rope to the single leak detection input on the RIM-750. This kit includes a 15'L (4.57 m) cable that connects the RIM-750 to the Leak Detection Sensor Rope and an End-of-Line Terminator that is attached to end of the Sensor Rope. Sensor Ropes are available in several lengths and multiple Sensor Ropes can be attached end-to-end to create longer lengths. The RIM-750 can support up to 200 feet (60 m) of Sensor Rope. One Leak Detection Lead Cable is required to attach Sensor Rope(s) to each RIM-750.
- Includes one 15'L (4.57 m) lead cable for attaching Sensor Rope(s), and an End of Line Terminator for attachment to the Sensor Rope
- Leader Cable: 22 AWG, 4-conductor cable, .121" (.307 cm) nominal outside diameter
- Standards: NEC Article 725-CL2P, CMP, MPP
- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Operating Humidity: 5% to 95% RH, non-condensing
- Maximum Altitude: 15,000 ft (4,572m)
- Storage Temperature: -4°F to 158°F (-20°C to 70°C)
- Cable Length: 15 feet (4.57 meters)
- EOL Terminator Dimensions: 0.9"W x 2.0"L (22.9 mm x 50.8 mm)
- Weight: Cable: 4.24 oz (120.2g); EOL: 0.4 oz (11.3g)
- Material: Plastic housing
- Color: White/Black

<table>
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<tr>
<th>Part Number</th>
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<tr>
<td>60116-001</td>
<td>Leak Detection Lead Cable, 15'L (4.57 m) and End of Line Terminator</td>
<td>1 (0.5)</td>
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</table>

Note: Order Leak Detection Sensor Ropes separately.

Leak Detection Sensor Rope
The Sensor Rope detects the presence of water. The Sensor Rope is constructed of a strong, durable, non-conductive polymer to reduce false alarms, while remaining highly flexible for easy placement around equipment. Sensor Ropes attach to the RIM-750 through the Leak Detection Lead Cable. Sensor Ropes are available in three lengths. Connect Sensor Ropes end-to-end to extend length.
- Plenum Rating: CL2P (UL)
- Sheer Strength: >180 lb (>81.65 kg)
- Cut Through Resistance: >40 lb (>18.14 kg) with .005" (0.127 mm) blade
- Abrasion Resistance: 60 cycles per UL 719
- Operating Temperature: 32°F to 167°F (0°C to 75°C)
- Operating Humidity: 5% to 95% RH, non-condensing
- Maximum Altitude: 15,000 ft (4,572m)
- Storage Temperature: -22°F to 185°F (-30°C to 85°C)
- Size: Rope not >.25" (6.35 mm) diameter
- Connector: 4 pin, 0.96" (24.38 mm) diameter
- Weight: .02 lb/ft (29.74 g/m)
- Material: Composite polymer
- Color: Orange/Black
- Certifications: CE; UL CL2P; RoHS Compliant; Plenum Rated

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
<th>Shipping Weight lb (kg)</th>
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<tr>
<td>60109-003</td>
<td>Sensor Rope, 10 ft L (3.0 m)</td>
<td>1 (0.5)</td>
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<tr>
<td>60109-004</td>
<td>Sensor Rope, 25 ft L (7.6 m)</td>
<td>1 (0.5)</td>
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<tr>
<td>60109-005</td>
<td>Sensor Rope, 50 ft L (15.2 m)</td>
<td>3 (1.4)</td>
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Note: A Leak Detection Lead Cable is required to attach Sensor Ropes to a RIM-750. Each RIM-750 can support up to 200 feet (60 meters) of Sensor Rope, or a mix of Sensor Rope and Leak Spot Detectors. Each Leak Spot Detector reduces the total length of Sensor Rope supported by 50 feet (30.2 meters). Use J-Clips (ordered separately) to install Leak Detection Sensor Rope.
J-Clips For Leak Detection Sensor Rope

Use J-Clips to install Leak Detection Sensor Rope. J-Clips are constructed of durable nylon with an adhesive backing for easy and secure installation.

- Operating Environment (Adhesive): -4°F to 122°F (-20°C to 50°C)
- Size: 1.1”H x 1”W x 0.5”D (28 mm x 25 mm x 12 mm)
- Weight: 0.3 lb (0.1 kg)
- Material: UL94 V-1, RMS-05 Nylon
- Color: White

<table>
<thead>
<tr>
<th>Part Number</th>
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<tbody>
<tr>
<td>60109-006</td>
<td>J-Clips, Pack of 10</td>
<td>1 (0.5)</td>
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<tr>
<td>60109-007</td>
<td>J-Clips, Pack of 50</td>
<td>1 (0.5)</td>
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</table>

Note: Use J-Clips (ordered separately) to install Leak Detection Sensor Rope.

Leak Spot Detector

Leak Spot Detector is used to detect liquid in a specific spot, such as, inside of a condensation drip pan. The Detector features a small enclosure with adjustable probes. It can be attached to a flat surface and submerged in water. Leak Spot Detector attaches to one of the eight digital inputs on the RIM-750. You can use up to four Leak Spot Detectors with RIM-750; however, each Leak Spot Detector counts as 50 feet (15.2 meters) of Sensor Rope and will reduce the total length of Leak Detection Sensor Rope supported by the RIM-750 by 50 feet (15.2 meters). For example, you could use two Leak Spot Detectors and 100 feet (30.4 meters) of Leak Detection Sensor Rope.

- Includes one spot detector sensor with an attached 14'L (4.27 m) non-sensing two-wire leader cable
- Solid State Output: 12-36VAC @ 0.01A min., 0.1A max. or 18-36VDC @ 0.01A min., 0.1A max.
- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Operating Humidity: 5% to 95% RH, non-condensing
- Maximum Altitude: 15,000 ft (4,572 m) max.
- Storage Temperature: -4°F to 158°F (-20°C to 70°C)
- Dimensions: 2.0”H x 1.5”W x 1.0”D (51 mm H x 39.4 mm W x 25.4 mm D)
- Weight: 4 oz. (105 g)
- Material: Plastic housing
- Color: Black
- Certifications: CE, ETL listed: conforms to UL 61010-1, EN 61010-1, RoHS compliant

<table>
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<th>Part Number</th>
<th>Description</th>
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<tr>
<td>60109-001</td>
<td>Leak Spot Detector, with 14'L (4.2 m) cable</td>
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Smoke Detector

Surface-mount, wired, photoelectric smoke detector with two-piece construction that allows pre-wiring of the installation base with plug-in head. The Smoke Detector includes an external power supply and attaches to one of the eight digital inputs on the RIM-750.

- Input Power: 12/24V non-polarized [nominal]; 8.5V [minimum]; 35V [maximum]
- Maximum Ripple Voltage: 30% peak-to-peak of applied voltage
- Standby Current: 50µA maximum average
- Sensitivity: 2.5%/ft nominal
- Alarm Contact Ratings: 0.5A @ 30V AC/DC
- Maximum Alarm Current: 20mA @ 12V; 23mA @ 24V
- Operating Temperature Range: 32°F to 120°F (-20°C to 49°C)
- Operating Humidity Range: 0 to 95% RH, non-condensing
- LED indicators: Red and Green indicate power up, normal, out of sensitivity, and alarm conditions
- Mounting: 3.5" octagonal back box, 4" octagonal back box, 4" square back box with a plaster ring, direct mount to ceiling/wall
- Input Terminals: 14 to 22 AWG
- Size: 2.0”H x 5.3” diameter (51 mm x 127 mm diameter)
- Weight: 6.3 oz (178 g)
- Material: Housing, plastic
- Color: White

<table>
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<th>Part Number</th>
<th>Description</th>
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<tr>
<td>60100-001</td>
<td>Smoke Detector, with 120 VAC, 15A connection</td>
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Power Fail Monitor

Power Fail Monitor plugs into a standard 120 VAC NEMA 5-15 outlet to monitor for power loss. Secures to the outlet to ensure it is not accidentally disconnected and signals power loss through a Form C output relay. Power Fail Monitor attaches to one of the eight digital inputs on the RIM-750.

- Input: NEMA 5-15 plug, 3-prong (with ground)
- Power: 120 VAC @ 15mA
- Output: Relay, 1 Dry Contact, Form C, 10A @ 120 VAC; 5A @ 30 VDC
- Operating Temperature: 32°F to 122°F (0°C to 50°C)
- Operating Humidity: 5% to 95% RH, non-condensing
- Maximum Altitude: 15,000 ft (4,572 m)
- Storage Temperature: -4°F to 158°F (-20°C to 70°C)
- Size: 3.5”H x 2.375”W x 2.25”D (89 mm x 60 mm x 57 mm)
- Weight: 0.21 lb (0.09 kg)
- Material: Housing, plastic
- Color: Black

<table>
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<tbody>
<tr>
<td>60110-001</td>
<td>Power Fail Monitor, with 120 VAC, 15A connection</td>
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SPECIFICATIONS

Motion Detector
The Motion Detector is a surface-mounted, wired, passive infrared motion detector designed for wall-to-wall coverage across a wide temperature range. When wall-mounted around 10 feet (3 meters) high, Motion Detector covers a cone-shaped area with a maximum span of about 60 feet (18.2 m) and a maximum range of about 50 feet (15.2 meters). The Motion Detector includes an external power supply and attaches to one of the eight digital inputs on the RIM-750.

- Input Power: 9.5 VDC to 14.5 VDC
- Maximum Ripple Voltage: 3 V peak-to-peak @ 12 VDC
- Standby Current: 15 mA @ 12 VDC
- Current in Alarm: 18 mA @ 12 VDC
- Contact Rating: 100mA @ 24VDC
- Alarm Contact Resistor in Common: 10 Ohm, 0.25W
- Operating Temperature Range: -4°F to 140°F (-20°C to 60°C)
- Operating Humidity Range: 0 to 95% RH, non-condensing
- RF Immunity: 50V/m from 0.01 to 1,200 MHz
- Static Immunity: 8kV Contact, 15kV Air
- Transient Immunity: 2.4 kV @ 1.2 joules
- White Light Immunity: 20,000 Lux @ Device
- Walk Detection Speed: 0.5 to 10 ft/s (0.15 to 3 m/sec)
- Alarm Duration: 2 to 3 seconds
- Coverage Angle: 90° Minimum
- Mounting Height Range: 6 to 10.5 ft (1.8 to 3.2 m)
- Mounting: direct mount to wall
- Size: 3.0”H x 2.5”W x 1.87”D (89 mm x 64 mm x 48 mm)
- Material: Housing, plastic
- Color: White

<table>
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<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>60114-002</td>
<td>Motion Detector, Power Supply included</td>
<td>2 (0.9)</td>
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</table>

Magnetic Door Sensor
The Magnetic Door Sensor is a surface-mounted, wired, magnetic proximity sensor used to detect when a door is opened and closed or when a cover panel is attached or removed. The Magnetic Door Sensor is designed for quick and easy installation as well as a long life (4 million operations). The Magnetic Door Sensor attaches to one of the eight digital inputs on the RIM-750.

- Contact Ratings: 3.0W max. @ 30 VDC or 30 VAC max. @ 0.3A max.; 1.0 msec. max. operate time (including bounce); 1.0 Amp max. carry current
- Dielectric Strength: 200 VDC min.
- Electrical Circuit: SPST NO (contact Form A). Reed switch opens when magnet is removed from proximity. Contacts are held closed when magnet is in actuation range.
- Operating Temperature Range: -40°F to 212°F (-40°C to 100°C)
- Operating Distance/Alignment: 1.25” (31.8 mm) make gap; Operate (make) points are nominal values with ±10% tolerance. Release points are 110% to 150% of the operating points.
- Size: 2.5”H x 1.25”W x .625”D (63.5 mm x 31.8 mm x 15.9 mm)
- Material: Housing, plastic
- Color: White

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