The SPIRA-tec® R16C is an automatic steam trap monitor for up to 16 steam traps. Remotely mounted, it continuously scans electronically up to 16 Spira-tec® Sensor Chambers and indicates when steam wastage or waterlogging occurs at any of the traps being monitored. A Sensor is screwed into each Sensor Chamber and is connected by wiring to the R16C which is sited at a convenient point. When all the steam traps being monitored are working correctly, a single green light will be illuminated. If one or more of the steam traps is failing, then the corresponding “fail” lights (of which there are thirty two) are illuminated and the green light is extinguished. The R16C, which is continuously operating, will indicate at a glance that either all the traps are operating correctly, or that there is a failure of any particular identified trap or traps. The unit can be interfaced with most present day computer controlled Building Management Systems, through a pair of volt free contacts, which will open on trap failure.

Available Types
R16C steam monitor is available as standard for use with mains supplies at 96-240Vac or 24Vac. The monitor is supplied for wall or panel mounting.

Technical Data
- Supply voltage: 96-240Vac ±10% or 24 Vac ±10%
- Supply frequency: 50 - 60 Hz
- Supply current consumption: 50 mA
- Operating temperature range: 0°C to 50°C
  - Maximum operating: 80% up to 31°C decreasing linearly to 34% at 50°C
  - Relative humidity: 2000 m above sea level
- Maximum altitude: 2000 m above sea level
- Maximum voltage: 24 Vac/dc
- Maximum current: 0.5A
- Maximum power: 10W
- Enclosure rating: IP65 with correct cable glands (wall mounting unit only)
- Electrical connections: Screw terminals

If cable protection is required, a conduit adaptor can be connected to the M16 conduit thread on the housing after removing the nut (1). The plug tail is supplied with 1.25m of cable. Any additional cable must be provided by the installer in accordance with the Installation Instructions.

Note: The type of cable is not critical, but a lightweight cable with 20 gauge conductors of 7/0.2 (0.22mm2) multi-strand cable will suffice.
SPIRA-tec® Automatic Steam Trap Monitor
R16C

To Use as Master Box
The R16C can be installed on a cascade basis. One “master” box will monitor up to 16 x R16C “local” boxes. A red light on the master box will indicate which “local” box is registering a leaking trap. Inspection of that local box will then identify the specific trap which is failing.

Dimensions (nominal) in inches and millimeters

<table>
<thead>
<tr>
<th>Wall Mounting</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>Weight</th>
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<tbody>
<tr>
<td>A</td>
<td>7.9</td>
<td>5.4</td>
<td>6.7</td>
<td>2.0</td>
<td>5.1</td>
<td>6.7</td>
<td>3.9</td>
<td>1.2</td>
<td>3.6</td>
<td>2.0</td>
<td>4.0 lb</td>
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<td>138</td>
<td>169</td>
<td>50</td>
<td>130</td>
<td>170</td>
<td>100</td>
<td>30</td>
<td>92</td>
<td>52</td>
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<table>
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<th>Panel Mounting</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7.6</td>
<td>5.7</td>
<td>4.1</td>
<td>5.5</td>
<td>7.3</td>
<td>1.6</td>
<td>3.4 lb</td>
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<tr>
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<td>105</td>
<td>140</td>
<td>186</td>
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<td>1.53 kg</td>
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