## Remote Units (Data Logger)

<table>
<thead>
<tr>
<th></th>
<th>RTR-574</th>
<th>RTR-574-H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature/Humidity Sensor</strong> (External)</td>
<td>THA-3151</td>
<td>HHA-3151 (High-Precision Type)</td>
</tr>
<tr>
<td><strong>Measurement Channels</strong></td>
<td>Temperature 1ch</td>
<td>Humidity 1ch</td>
</tr>
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<td></td>
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<td>Humidity 1ch</td>
</tr>
<tr>
<td><strong>Units of Measurement</strong></td>
<td>°C, °F</td>
<td>%RH</td>
</tr>
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<td>%RH</td>
</tr>
<tr>
<td><strong>Measurement Range</strong></td>
<td>0 to 55 °C</td>
<td>10 to 95 %RH</td>
</tr>
<tr>
<td></td>
<td>-30 to 80 °C</td>
<td>0 to 99 %RH</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±0.5 °C</td>
<td>±0.5 °C [at 25 °C, 50 %RH]</td>
</tr>
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<td></td>
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</tr>
<tr>
<td><strong>Measurement Resolution</strong></td>
<td>0.1 °C</td>
<td>1 %RH</td>
</tr>
<tr>
<td></td>
<td>0.1 °C</td>
<td>0.1 %RH</td>
</tr>
<tr>
<td><strong>Responsiveness</strong></td>
<td>Response Time (90%): Approx. 7 min.</td>
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</tr>
<tr>
<td></td>
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<td>Response Time (90%): Approx. 20 sec.</td>
</tr>
</tbody>
</table>

### Illuminance/UV Sensor

- **Measurement Channels**
  - Illuminance: 1ch
  - UV Intensity: 1ch
- **Units of Measurement**
  - Illuminance: lx, klx
  - UV Intensity: mW/cm²
- **Measurement Range**
  - Illuminance: 0 lx to 100 klx
  - UV Intensity: 0 mW to 6200 mW/cm²
- **Display Range of Cumulative Measurement**
  - Illuminance: 0 lxh to 90 Mlxh
  - UV Intensity: 0 mWh/cm² to 62 Wh/cm²
- **Accuracy**
  - Illuminance: ±5 % at 50 °C (0.1 to 10 lx, 10 to 100 lx)
  - UV Intensity: ±5 % at 25 °C, 50 %RH (0.1 to 30 mW/cm²)
- **Relative Spectral Response**
  - Illuminance: Approximated to the CIE standard response function V(*)
  - UV Intensity: 260 to 400 nm (UVA/UVB)
- **Measurement Resolution**
  - Illuminance: Minimum of 0.01 lx
  - UV Intensity: Minimum of 0.001 mW/cm²
- **Responsiveness**
  - Response Time (90%): 3 sec. (at recording interval of 1 sec.)
  - 6 sec. (at other intervals)
- **Logging Capacity**
  - 8,000 data sets (One data set consists of readings for all channels in that type of unit.)
- **Recording Mode**
  - Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min.
- **LCD Display Items**
  - Measurements, Battery Life Warning, etc.
  - Measurement: Illuminance / UV Intensity / Temperature / Humidity / Cumulative Illuminance / Cumulative amount of UV Light
  - Display Pattern: Alternating or Fixed display
  - Display Digits: Up to 4 digits
- **Communication Interfaces**
  - Wireless Communication (Short Range Radio Communication)
  - FCC Part15 Section247 / IC RSS-210 (Frequency Range: 902 to 928 MHz, RF Power: 7 mW)
  - ETSI EN 300 220 (Frequency Range: 869.7 to 870 MHz, RF Power: 5 mW)
  - USB Communication
  - Serial Communication (RS-232C)(*)
- **Wireless Transmission Range**
  - Approx. 150 meters (500 ft) if direct and unobstructed
- **Power**
  - AA Alkaline Battery (LR6) x 1
- **Battery Life**
  - Approx. 4 months
- **Dimensions**
  - H 55 mm x W 78 mm x D 16 mm (excluding protrusions)
  - Antenna Length: 60 mm
- **Weight**
  - Approx. 68 g (including battery, excluding sensor)
- **Operating Environment**
  - Temperature: -10 to 60 °C
  - Humidity: 90 %RH or less (no condensation)
- **Accessories**
  - Temperature / Humidity Sensor (THA-3151)
  - Temperature / Humidity Sensor (HHA-3151)
  - AA Alkaline Battery (LR6)
  - USB Communication Cable (US-15C)
  - Illuminance / UV Sensor (ISA-3151)
  - User’s Manual Set (Warranty Included)
- **Compatible Base Units**
  - RTR-500C, RTR-500NW/500AW, RTR-500DC

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*1: When used in environments where temperature and humidity are over the values of 50°C (75%), 60°C (50%), 70°C (35%), and 80°C (25%), sensor hysteresis may fluctuate by values greater than ±1.5%RH. Under certain circumstances, it may take some time to return to normal measurement capability.

*2: Compared to the value measured by the T&D standard sensor for calibration under our calibration light source.

*3: Only “Endless” is available when using RTR-500GSM with RTR-500DC.

*4: For communication with the Data Collector RTR-500DC (Note: Optional serial communication cable TR-6C10 is required.)

*5: Battery life varies depending upon the ambient temperature in which it is used, the recording interval, the frequency of communication, and the battery performance. All estimates are based on operations carried out with a new battery and are in no way a guarantee of actual battery life. The specifications listed above are subject to change without notice.