



## ENVIRONMENTAL OPERATING CONDITIONS OF SRT347

### *The unit itself*

Operating temperature range of the unit itself (attachable sensors excluded) is -40°C to +85°C. But, considering that the unit comes with a build-in Li-Ion battery, the recommended operating temperature range is -20°C to +55°C.

The operation of the unit is verified at a humidity level of 95% RH. But, because the electronics are sensitive against humidity, the recommended operating humidity level is 30%-70% RH.

### *Temperature sensor*

The operating temperature range of the attachable temperature sensor is -55°C to +125°C. But, the measurement accuracy of  $\pm 0.5^\circ\text{C}$  applies only in the range of -10°C to +85°C.

The operation of the attachable temperature sensor is verified at a humidity level of 95% RH. But, because the electronics are sensitive against humidity, the recommended operating humidity level is 30%-70% RH.

### *Humidity sensor*

The operating temperature range of the attachable humidity sensor is -40°C to +85°C.

The attachable humidity sensor operates between 0% RH and 100% RH, which is also its measurement range.

### *Infrared movement sensor*

The operating temperature range of the attachable infrared movement sensor is -20°C to +60°C.

The operation of the attachable temperature sensor is verified at a humidity level of 95% RH. But, because the electronics are sensitive against humidity, the recommended operating humidity level is 30%-70% RH.

Rated detection distance (when detectable difference in temperature between the target and background is more than 4°C) of the sensor is 5 meters. Detection range is 100° in horizontal plane and 82° in vertical plane.

***Important Notice: Don't attach a sensor to the unit if it is not going to be used! This is especially important if the unit is operated by battery since an attached sensor consumes power even if it is not used by the application in question.***