Proven Wireless Solutions
Wireless Measurement and Control with Modbus® Interface

Wireless Solutions for All Types of Buildings

SyxthSense wireless transmitter/wireless IO range caters for any typical building application. Our products have been designed to operate in wide range of environments and proven to operate reliably in all situations and in all types of buildings.

The wireless sensors have transmission range of 40..100m inside buildings and up to 500m line of sight.

- Robust Long Range Wireless Transmission
- Comprehensive Range of Measurement Options for Practically all Requirements
- Use in Museums, Protected Buildings, Shops with Ever Changing Sales Floors.
- Pulse Counting for Remote Energy Meters
- FLTA has In-built Modbus® - for 99 Sensors
- FLTA has 8 off 0..10Vdc for BMS I/O Connection if Needed
- Range of Configuration and Wireless Debugging Tools

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SyxthSense Wireless Range

Wireless Sensors and Transmitters

SyxthSense wireless range offers sensors and measurement devices to cover almost any HVAC application. The sensors are available for internal wall mounting as well as for outdoor installation. Large range of options are available to customise the products to suit your applications. Using remote remote PT1000 sensor elements it is possible to monitor anywhere e.g. ducts, pipes and building areas that could not be monitored with cabled sensors.

<table>
<thead>
<tr>
<th>TEFL</th>
<th>TEFL-RH</th>
<th>TEU-FL</th>
<th>KLU-FL</th>
<th>LA-FL</th>
<th>HDH-FL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>3.6V Lithium Battery</td>
<td>3.6V Lithium Battery</td>
<td>3.6V Lithium Battery</td>
<td>3.6V Lithium Battery</td>
<td>24Vac/dc</td>
</tr>
<tr>
<td>Measurement</td>
<td>°C</td>
<td>°C and %rH</td>
<td>°C and 0..10Vdc Signal</td>
<td>°C, %rH and Lux</td>
<td>Occupancy, 0..2,000ppm and °C</td>
</tr>
<tr>
<td>Options</td>
<td>Digital Input, Display, Setpoint</td>
<td>Digital Input, Display, Setpoint</td>
<td>Digital Input, Display, Setpoint</td>
<td>Remote Pt1000 (for °C)</td>
<td>Digital Input (for 10Vdc)</td>
</tr>
<tr>
<td>Transmission</td>
<td>COV or 60mins</td>
<td>COV or 60mins</td>
<td>Adj. 6s up to 30 mins</td>
<td>Adj. 6s up to 30 mins</td>
<td>COV or 60mins</td>
</tr>
<tr>
<td>Frequency</td>
<td>868.30MHz FSK</td>
<td>868.30MHz FSK</td>
<td>868.30MHz FSK</td>
<td>868.30MHz FSK</td>
<td>868.30MHz FSK</td>
</tr>
</tbody>
</table>

Note: COV = Change of Value

Wireless I/O-Modules and Meter Pulse Counters

<table>
<thead>
<tr>
<th>RF-FL</th>
<th>PA-FL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>230Vac 12VA</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 Input Channels; Configurable DI or 0..10Vdc</td>
</tr>
<tr>
<td>Outputs</td>
<td>2 Output Channels; Configurable 230Vac Relay or 0..10Vdc (+PWM)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>W150 x H150 x D110</td>
</tr>
<tr>
<td>Frequency</td>
<td>868.30MHz FSK</td>
</tr>
</tbody>
</table>

Wireless Repeaters

FLREP wireless repeaters are used to extend the transmission distance in situations where the RF signal transmission is difficult. FLREP-U boosts the signal significantly.

<table>
<thead>
<tr>
<th>FLREP</th>
<th>FLREP-U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>12..24Vac/dc</td>
</tr>
<tr>
<td>Frequency</td>
<td>868.30MHz FSK</td>
</tr>
<tr>
<td>Enclosure</td>
<td>IP20 Wall Mounting</td>
</tr>
<tr>
<td>Application</td>
<td>Range Extension</td>
</tr>
<tr>
<td>No Repeaters</td>
<td>Max. 8</td>
</tr>
<tr>
<td>LED Indication</td>
<td>On Transmission</td>
</tr>
</tbody>
</table>

Wireless Receivers and Wireless Network Tools

FLTA wireless receiver is the “hub” of the system and collects all wireless measurements. The measurements are then available through 0..10Vdc outputs or via the Modbus RTU interface. Via Modbus it is also possible to control RYFL wireless I/O-module outputs enabling remote control functionality. FLSER service tool is used for configuring the individual devices and for the network signal strength debugging.

<table>
<thead>
<tr>
<th>FLTA RECEIVER</th>
<th>FLSER</th>
<th>FLSNIF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>24Vac/dc</td>
<td>3.6V Lithium Battery</td>
</tr>
<tr>
<td>Function</td>
<td>Wireless Receiver and Base Station</td>
<td>Sensor and Network Commissioning Tool</td>
</tr>
<tr>
<td>Outputs</td>
<td>8 0..10Vdc Outputs</td>
<td>Modbus RS485 Slave</td>
</tr>
<tr>
<td>Interface</td>
<td>LCD Display and Touch Buttons</td>
<td>LCD Display and Buttons</td>
</tr>
<tr>
<td>Mounting</td>
<td>DIN-Rail</td>
<td>Handheld</td>
</tr>
</tbody>
</table>

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