**Modbus Solutions for All Types of Applications**

- Modbus RTU RS-485 Communication - Free Open Standard for a Wide Range of Applications
- Advanced Room and Zone Controllers for Energy Saving Applications
- Metering Interfaces to Connect Meters to Modbus Networks
- Modbus Input/Output Modules, Compact, Intuitive and Cost-effective

**MODBUS MEASUREMENT AND FIELD DEVICES**

- Modbus RTU - RS-485
  - ATV21 IPS Variable Speed Drives
  - HDH-M-AL3 Modbus CO2 Alarm Unit
  - HDH-M Modbus CO2 Temperature Transmitter
  - TEHR-MB Modbus Room Temp Sensors
  - UI Range Modbus Room Temp Sensors
  - IML-M Modbus Pressure Volume Transmitter

**MODBUS FIELD DEVICES, WIRELESS DEVICES, METERING AND THERMOSTATS**

- Modbus RTU - RS485
  - MOD/M-BUS Integrator Modules
  - Wireless Sensors and Input Modules
  - Wireless Humidity, Temperature, Setpoint, Switch, Digital Contact, CO2, Light Level, Wireless IO etc.
  - SST Modbus Flush Mounted Thermostats
  - SSTA Modbus Room Setpoint Unit
  - MOD-PULSE12 Digital Pulse Input Module (12 Meters)
  - MOD-PULSE23 Digital Pulse Input Module (23 Meters)

**MODBUS PROGRAMMABLE AND ROOM CONTROLLERS**

- Modbus RTU - RS485
  - HLS35 Underfloor Controller
  - HLS34 Fan Coil Controllers
  - SFT Fan Coil Controllers 230/24Vac
  - PVC Natural Ventilation Controllers
  - HLS44 Room Controllers
  - HLS45 Underfloor Heating Controllers
  - SRC-131 Touchscreen Hotel/Room Controllers
  - SDC-30 Programmable Controller (30 I/Os)

**MODBUS INPUT/OUTPUT MODULES**

- Modbus RTU - RS485
  - MOD-AIO8 Analogue Input Module
  - MOD-DO8 Relay Output Module
  - MOD-D016 Digital Input Module
  - MOD-D08 Digital Input Module
  - MOD-COMB16 Combination I/O Module
  - MID12-V 12 IO Modbus Modules
  - MID12-PT 12 IO Modbus Modules
**Modbus Sensors and Measurement**

SyxthSense offers a comprehensive range of Modbus sensors and measurement interfaces. The Modbus protocol allows robust measurement readings, and interfacing to wide range of signals. For any questions on our range of available Modbus sensors please contact www.syxthsense.com or our sales department.

<table>
<thead>
<tr>
<th>Description</th>
<th>KLH Humidity Sensors</th>
<th>HDH CO₂ Sensors</th>
<th>TEHR-MB Room Temperature Sensors</th>
<th>UI Room Sensors and Setpoint Devices</th>
<th>IML Air Flow and Pressure Sensors/Controllers</th>
<th>Weather Station, Wind Speed/Direction/1/Fs</th>
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<tbody>
<tr>
<td>Measurements</td>
<td>%rH, °C</td>
<td>CO₂ ppm, °C</td>
<td>°C</td>
<td>°C</td>
<td>Pressure, Flow</td>
<td>Wind Speed/Direction, Temp, Pressure, Humidity, Rain, UV, Radiation, Optional Display</td>
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<tr>
<td>Options</td>
<td>Display</td>
<td>Display, Traffic Light LEDs, %rH</td>
<td>Display</td>
<td>Setpoint, 2DI, 2DO, %rH</td>
<td>Display</td>
<td>Display</td>
</tr>
<tr>
<td>Comms</td>
<td>Modbus RTU RS485</td>
<td>Modbus RTU RS485</td>
<td>Modbus RTU RS485</td>
<td>Modbus RTU RS485</td>
<td>Modbus RTU RS485</td>
<td>Modbus RTU RS485</td>
</tr>
<tr>
<td>Physical I/Os</td>
<td>2 x Analogue 0..10Vdc</td>
<td>3 x Analogue 0..10Vdc</td>
<td>2 x Analogue 0..10Vdc</td>
<td>2 x Analogue 0..10Vdc</td>
<td>2 x Analogue 0..10Vdc</td>
<td>2 x Analogue 0..10Vdc</td>
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</tbody>
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**Modbus Controllers and Thermostats**

<table>
<thead>
<tr>
<th>Modbus Room and Zone Control, Modbus Generic Control and Modbus Thermostats and FCU Controls</th>
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<tbody>
<tr>
<td>Description</td>
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<tr>
<td>Functionality</td>
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<tr>
<td>Comms</td>
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<td>Inputs / Outputs</td>
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</table>

Note: RI = Resistive Input, AI = Analogue Input, DI = Digital Input, AO = Analogue Output, DO = Digital Output, RO = Relay Output.

**Modbus Input/Output Modules and Modbus Metering Interfaces**

<table>
<thead>
<tr>
<th>Modbus Input and Output Modules, Modbus M-Bus Interfaces, Modbus Meter Pulse Counters</th>
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<tbody>
<tr>
<td>Description</td>
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<tr>
<td>Inputs / Outputs</td>
</tr>
<tr>
<td>Master Comms</td>
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</tbody>
</table>

Note: The network design is important for reliable communications on any protocol, or BMS. SyxthSense is pleased to supply its preferred cable types for M-Bus or Modbus (both are different) and can advise on the network design as required. Using the correct cables for M-Bus or Modbus from SyxthSense is a great way to reduce field issues.