BACnet Building Control Device Range
Controllers, IOs and Measurements via BACnet® Interface

BACnet Solutions for All Types of Applications - Keeping in Touch with the Future

- Extensive Range of BACnet Field Devices and BACnet Controllers supporting BACnet IP and BACnet MS/TP
- Support for Who-Is and Who-Has commands; allows MS/TP and IP devices to be discovered
- Easy points discovery on MS/TP Field Devices and BACnet IP Controllers; Fast and Effective Engineering
- Cost Effective BACnet Client Solutions for Integrating BACnet IP and BACnet MS/TP at the Controller Level
- Supports Analogue Input, Analogue Output, Analogue Value, Binary Input, Binary Output, Multistate Input and Multistate Value Objects on SDC; plus BACnet schedule on DDC4200 Controllers
- BACnet MS/TP Sensor Measurements include Temperature, Humidity, Occupancy, CO2, LUX Level, Resistive, NTC10 and Volt-Free Signals plus additional Inputs and Outputs for Cost Effective Engineered Solutions

SYXTHSENSE BACNET SOLUTIONS - NETWORK EXAMPLES

BACnet MS/TP Client
BACnet IP Clients

BACNET ROOM SENSORS AND MEASUREMENT SOLUTIONS, BACNET MS/TP IO-MODULES AND CONTROLLERS
BACnet MS/TP RS485 Communication

CDR BACnet CO2, %rH and Temperature Sensor
CDR-LCD BACnet CO2 and Temp Transmitter w/ Display
CDR-RH-SP BACnet CO2, Temp and Humidity Transmitter with Setpoint
RHR BACnet Humidity and Temp Module with Active Setpoint and Controls
TER BACnet Temperature Transmitter with extra Inputs and Outputs
TER-SP BACnet Temp Transmitter with Setpoint and Controls
BAC-DIO4 BACnet Digital Input and Output Modules
BAC-I09 BACnet Input and Output Module
SDC-20C BACnet Programmable Zone Controller (20 I/Os)

EXAMPLE OF BACNET DEVICE AND POINT DISCOVERY ON THE MS/TP DEVICES

INTEGRATING BACNET DEVICES TO THE BACNET SDC20G/32G/FG20/FG32 CLIENT - HTML5 GRAPHICS ON THE PLANT ROOM CONTROLLER LEVEL WITH FULL SCALE BACNET IMPLEMENTATION

www.syxthsense.com

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JACE is a trademark of Tridium Inc. BACnet is registered trademark of ASHRAE.
**BACnet Controllers and BACnet Client Devices**

<table>
<thead>
<tr>
<th>BACnet Programmable Controllers - Servers</th>
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</thead>
<tbody>
<tr>
<td>SDC-206/FG20</td>
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</tbody>
</table>

**Description**
- Sedona Fully Programmable Plant Controller
- Sedona Fully Programmable Plant Controller
- Ventilation and Heating Plant Controller
- Fully Programmable Outstation Controller
- Programmable Sedona Zone Controller
- Sedona Programmable Compact Plant Controller

**Comms**
- BACnet IP Server
- BACnet MS/TP Server
- BACnet IP Server
- BACnet MS/TP Server
- BACnet IP Server
- BACnet MS/TP Server

**Programming**
- Via Workbench or CPT Tool
- Via Workbench or CPT Tool
- Via DDC Tool or PS4000
- Via PS4000
- Via Workbench or CPT Tool
- Via Workbench or CPT Tool

**Inputs / Outputs**
- 12UI, 2DO, 6UO
- 16UI, 8DO, 8UO
- 2DI, 8UI/DO, 5RO
- 16DI, 8DO, 8DO/DI, 16AI, 8AD
- 12UI, 4DO, 4AO
- 8UI, 8DI, 8RO, 2DO, 4UO

**BACnet Client Devices**
- BACnet Client
- BACnet Client

**Object Support**
- AI, AO, BI, BO, BV, MSI, MSO, MSV, SC, TL
- AI, AO, BI, BO, BV, MSI, MSO, SC, TL

**Note:**
- BACnet Objects; AI = Analogue Input, AO = Analogue Output, AV = Analogue Value, BI = Binary Input, BO = Binary Output, MSI = Multistate Input, MSO = Multistate Output Objects, MSV = Multistate Value, SC = Schedule Object, TL = Trend Log
- UI = Universal Input, DO = Digital Output, UO = Universal Output

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**BACnet Sensors and Measurement**

**Modbus Measurement - Temperature, CO2, Humidity, Light Level, Occupancy**

<table>
<thead>
<tr>
<th>RHR-BAC</th>
<th>CDR-BAC</th>
<th>TER-BAC</th>
<th>LLR-BAC</th>
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<tbody>
<tr>
<td>RHR Humidity Sensors</td>
<td>CDR CD Sensors</td>
<td>TER Room Temperature Sensors</td>
<td>LLR BACnet Light Level Sensors</td>
</tr>
<tr>
<td>%rh, °C, LUX, Occupancy, RI/NTC, DI</td>
<td>%rh, °C, LUX, Occupancy, RI/NTC, DI</td>
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<td>%rh, °C, LUX, Occupancy, RI/NTC, DI</td>
</tr>
<tr>
<td>CO2 ppm, °C, %rh, LUX, Occupancy, RI/NTC, DI</td>
<td>CO2 ppm, °C, %rh, LUX, Occupancy, RI/NTC, DI</td>
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</tr>
</tbody>
</table>

**Options**
- Display, Push Button, LUX, Occupancy, Setpoint, Extra DI/RI
- Display, Traffic Light LEDs, %rh, Push Button, LUX, Occupancy, Setpoint, Extra DI/RI
- Display, Push Button, LUX, Occupancy, Setpoint, Extra DI/RI
- Display, Push Button, LUX, Setpoint, Extra DI/RI

**Comms**
- BACnet MS/TP
- BACnet MS/TP
- BACnet MS/TP
- BACnet MS/TP

**Physical IDs**
- 3 x Analogue 0..10Vdc, 1 x RI, 1 x DI, 2 x DO
- 3 x Analogue 0..10Vdc, 1 x RI, 1 x DI, 2 x DO
- 3 x Analogue 0..10Vdc, 1 x RI, 1 x DI, 2 x DO
- 3 x Analogue 0..10Vdc, 1 x RI, 1 x DI, 2 x DO

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**BACnet Input/Output Modules and BACnet Room Interfaces**

**BACnet Input and Output Modules, Room Interfaces and Meter Pulse Counters**

<table>
<thead>
<tr>
<th>BAC-DIO4 ZONE IO-MODULE WITH PULSE COUNTING</th>
<th>MOD-IO9 ZONE IO-MODULE</th>
<th>BAC-RI ROOM INTERFACE MODULE WITH SETPOINT BUTTONS</th>
<th>BAC-R2Z ROOM INTERFACE MODULE WITH SP, FAN AND MODE BUTTONS</th>
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**Description**
- Digital Input and Output Module, 24Vac/dc
- Combination Input/Output Module, 24Vac/dc
- Intelligent Room Interface Module, 24Vac/dc
- Intelligent Room Interface Module with Fan/Mode, 24Vac/dc

**Inputs / Outputs**
- 2 Digital Inputs; Pulse Count Capable
- 2 Digital Inputs; Pulse Count Capable
- 2 Digital 24Vac Triacs
- 2 Digital 24Vac Triacs
- 1 Temperature, 1 DI, 1 DI
- LCD Display, Day/Night Mode, Fan Speed, °C, Setpoint, Open/Close, Alarm Display
- 2 Buttons, Setpoint Adjustment
- 1 Temperature, 1 DI, 1 DI
- LCD Display, Day/Night Mode, Fan Speed, °C, Setpoint, Open/Close, Alarm Display
- 4 Buttons, Setpoint Adjustment, Mode, Fan Speed Adj

**Comms**
- BACnet MS/TP
- BACnet MS/TP
- BACnet MS/TP
- BACnet MS/TP

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**Note:**
- BACnet sensors and measurement interfaces. The BACnet protocol allows robust measurement readings, and interfacing to wide range of signals. For any questions on our range of available BACnet sensors please contact www.saxthsense.com or our sales department.

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