

Bidirectional EnOcean to BACnet Gateway

RW-RUBI-01



Description

RW-RUBI-01 is a BACnet device, more specifically a BACnet Application Specific Controller (B-ASC), compliant with the 135-2004 ANSI/ASHRAE standard. It communicates over Ethernet and MS/TP BACnet networks and can also be used as a router between the two networks. It makes it possible to integrate as many devices as required on the network (multi-instance), thus making integration even more seamless. Since each EnOcean device on the network is considered as a full-fledged device with its own points, the operators perceive them as BACnet equipment.



Application

RW-RUBI-01 is a BACnet network manager. It has been developed to make communication between EnOcean and BACnet devices possible. With RW-RUBI-01, any EnOcean product can easily be integrated into the BACnet network to centralise the controls of this new green wireless and batteryless network!

Features

- Complete configuration is performed through a simple and complete website integrated into RW-RUBI-01.
- BACnet multi-instance supported to allow distinct devices over the BACnet network for all integrated equipment.

Technical Data

RW-RUBI-01
Power Supply
 5 VDC
 8-38 VDC (with enclosure)
Power Consumption
 12 VA
Operating Temperature
 -20°C to 65°C
Humidity
 0-90% RH, non condensed
Dimension
 14.5 x 11.5 x 6.5 cm
 5¾" x 4½" x 2½"
Weight
 450 g (1 lb)

BACnet Profile
 BACnet Application Specific Controller (B-ASC)

Supported Objects

Binary Input
 Binary Output
 Binary Value
 Analog Input
 Analog Output
 Analog Value
 Device

Supported Services

I Am
 Who Is
 I Have
 Who Has
 Read Property
 Read Property Multiple
 Write Property
 Time Synchronisation
 Device Communication Control
 Reinitialize Device

Communication

Ethernet 802-3 10 Base-T
 MS/TP (RS-485)

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Features

Complete configuration is performed through a simple and complete website integrated into RW-RUBI-01.

Device learning procedure is done with sensors 32-bits device ID.

Reception of an unlimited number of sensors or switches, of any type.

Can control up to 512 relay (RCM255 or equivalent) via BACnet network.



RW-RUBI-01



RW-REP-01
RW-TCM-01

Technical Data

EnOcean device

Power Supply

- Batteryless
- Finger pressure
- Solar cell
- Others

EnOcean Transceiver Module

RW-TCM-01

The transceiver module is independent of the RW-RUBI-01's enclosure to allow a perfect reception positioning.

Power Supply

- 24 VAC

Connector

- Terminal screw

Dimension

- 11 x 11 x 5.7 cm
- 4³/₈" x 4³/₈" x 2¹/₄"

EnOcean Repeater Module

RW-REP-01

The repeater module is used to increase radio signal range.

Power Supply

- 24 VAC

Connector

- Terminal screw

Dimension

- 11 x 11 x 5.7 cm
- 4³/₈" x 4³/₈" x 2¹/₄"

Radio path range/-penetration:

Visual contacts

Typ. 30m range in passages, corridors, up to 100m in halls

Rigypsum walls/wood

Typ. 30m range through max. 5 walls

Brick wall/Gas concrete

Typ. 20m range through max. 3 walls

Reinforced concrete/-ceilings

Typ. 10m range through max. 1 ceiling

MATERIAL

PENETRATION

Wood, gypsum, glass uncoated	90...100%
Brick, pressboard	65...95%
Reinforced concrete	10...90%
Metal, aluminum pasting	0...10%