

# eBACgw-Mitsubishi

BACnet GATEWAY FOR MITSUBISHI  
G50A AND AG150 CONTROL UNITS

The successful integration of proprietary systems is one of our goals. Our strategic approach to this challenge consists in design and development of specific interfaces promoting the proprietary world to the level of BACnet automation system. The eBACgw gateways connect the proprietary system to a standard BACnet network.

The gateway is one of the key points in the process of system integration, because it translates the messages from one protocol to another. The process is transparent to the final user, so the integrated BACnet network appears as a single network of BACnet devices only.

Using gateways versus BACnet allows to:

- "look at" the plant under one philosophy
- design upgrades and extensions without restrictions due to the specificity of the proprietary system
- recover existing installations
- give interoperability features to systems otherwise isolated
- open the door to new developments speaking of convergence with the ICT world.

## Description

The **eBACgw-Mitsubishi** is a gateway between BACnet and the proprietary protocol used by Mitsubishi G50-A and AG150 air conditioning control units.

The device allows to integrate the air conditioning system into the BACnet network.

## Functionality

- automatic set-up
- can manage up to 4 G-50A units or one AG150
- air conditioner total control
- alarm and event notification
- BBMD support
- WEB configurator



## Application

The eBACgw-Mitsubishi gateway is suited for building automation plants where is needed to integrate the M-NET network, proprietary of Mitsubishi air conditioners, into the BACnet network. The whole M-NET network is mapped to BACnet through the creation of appropriate objects. With these objects is possible to interact according to the rules set by the standard.

The eBACgw allows the remote control of all the air conditioner functions and the reading of the air temperature and the air filter status.

Alarm notification events can be set-up on the basis of user defined limits. In the same way it is possible so notify events as like as air conditioner fail or exploited air filter. It is possible to enable/disable any single functionalities of the remote control too.

## How to order

To choose the right gateway model, the total number of G50A to integrate must be considered.

In case of AG150 unit the total number of installed modules (G50A equivalent unit) must be considered.

Product Code	Max number of units
eBACgw-Mitsubishi-1	1
eBACgw-Mitsubishi-2	2
eBACgw-Mitsubishi-4	4



## Specification

### Device profile

- gateway

### Power supply

- 5 V DC
- 110/220V PSU included

### Technology

- 32 bit CPU

### Wiring

- power supply
- Ethernet 10/100

### Indication

- power supply
- ethernet activity

### BACnet Objects \*

- air-conditioner ON/OFF
- working mode
- air direction
- fan speed
- temperature set-up
- temperature measure
- change filter
- unit in error
- remote control features lock/unlock

\* If offered by the conditioner

### Environment

- Temperature: 0...+45°C
- relative humidity: 10...90%  
[non condensing]

### Metrics

- 137 x 47.5 x 95.4 mm [ (WxHxL)
- mounting brackets are included
- optional DIN rail adapter

### Weight

- 500 g

### Approvals

- CE