

eBACgw-Meteo

BACnet GATEWAY FOR WEATHER INFORMATION

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-Meteo** is a gateway between BACnet and the weather report services that collect data in different specified locations. These services are free and accessible through the Internet.

Functionality

- automatic service subscription
- measurement of 9 meteorological quantities
- observation of 7 atmospheric phenomena
- updating interval user selectable
- alarm and event notification
- BBMD support
- WEB configurator



Application

The eBACgw-Meteo gateway is suited for building automation plants where is needed to integrate the weather information collected in a specific location into the BACnet network. Gateway data are updated time after time when a new weather report comes out, usually every 30-60 minutes. Device set-up is very simple: it's sufficient to set the measurement geographical location (according to ICAO standard) and select the service sampling time. Service access is possible through HTTP inquiries and usually doesn't need special settings in corporate router/firewall. Alarm and notification events can be set-up on the basis of user defined limits or change of state of every managed object. In the "description" field of every object there is the time of the weather report containing the current data.

How to order

You can order the ESAC eBACgw gateway for weather report services referring to the following product code:

eBACgw-Meteo



Specification

Device profile

- gateway

Power supply

- 5 V DC
- 110/220V PSU included

Technology

- 32 bit CPU

Wiring

- power supply
- Ethernet 10/100
- RS232/RS485

Indication

- power supply
- ethernet activity

BACnet Objects

- wind speed
- wind direction
- air temperature ground level
- dew point
- relative humidity
- sea-level pressure
- cloud cover
- cloud heights
- visibility ground level
- atmospheric phenomena (rain, thunderstorm, snow, sleet, hail, mist, fog) presence and intensity

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