# KMG103

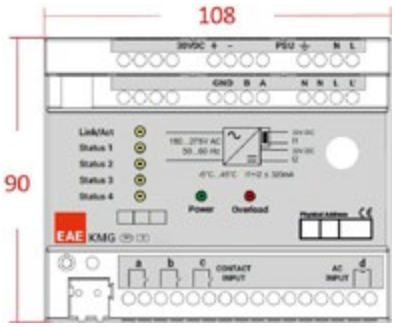
## EAE KNX MODBUS GATEWAY


Power Supply
Modbus TCP Router
Logic Functions
are Included

### General Specifications

- EAE KMG103 can be used to control and monitor KNX installations via SCADA visualization software.
- IP address of device can be given by DHCP server or by manual configuration.
- EAE KMG103 includes patent-pending logic controller that enables room energy saver system without using card holder.
- Device has 3 physical inputs for door, window and presence sensing.
- EAE KMG103 has built-in 320mA or 640 mA KNX bus power supply for KNX devices. (110V, 220V AC are available)
- KNX Power supply output is short-circuit and overload protected.
- Power, overload and reset statuses are indicated with three different LED indicators.
- Power supply can be restarted by pressing reset button on the device.

### Dimensions (mm)

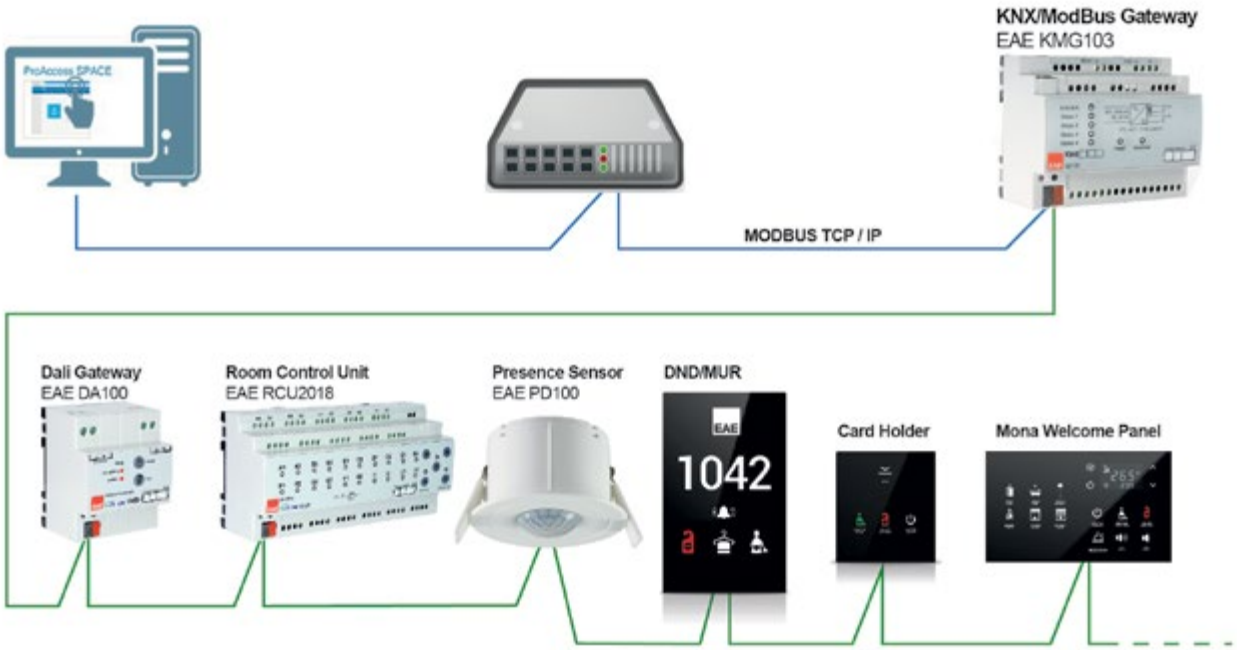



## Technical Information

| | | |
|---|---|---|
| Type of Protection | IP20 | EN 60 529 |
| Safety Class | II | EN 61 140 |
| Insulation Category | Over voltage category<br>Pollution Degree | III EN 60 664 - 1<br>2 EN 60 664 - 1 |
| Main Supply | Input Voltage<br>Power consumption | 150-275V AC, 50-60Hz<br>7W |
| Output | KNX Bus | 30 VDC +1 / -2V, SELV (Integrated choke)<br>640mA |
| Connection | IP Line<br><br>KNX Line | RJ45 socket for 10/100BaseT, IEEE 802.3 networks<br>Bus Connection Terminal |
| Display Elements | ETH Link<br>ETH Act<br>LED for programming mode | Satatus<br>Fault |
| Operating Elements | Function button, Programming button | |
| Installation | 35mm DIN rail mount | EN 60 715 TH 35-75 |
| Temperature Range | Operation<br>Storage | -5°C + 45°C non-condensing<br>-20°C + 60°C |
| Humidity | | 5% to 93% no maisture condensation |
| Dimensions | H x W x D | 90mm x W x 70mm |
| Weight | 66g | |
| Box | Plastic PA66 housing gry | |
| CE | in accordance with EMC and low voltage guidelines<br>Device complies with, EN 50090-2-2, IEC 60664-1 | |

## Ordering Information

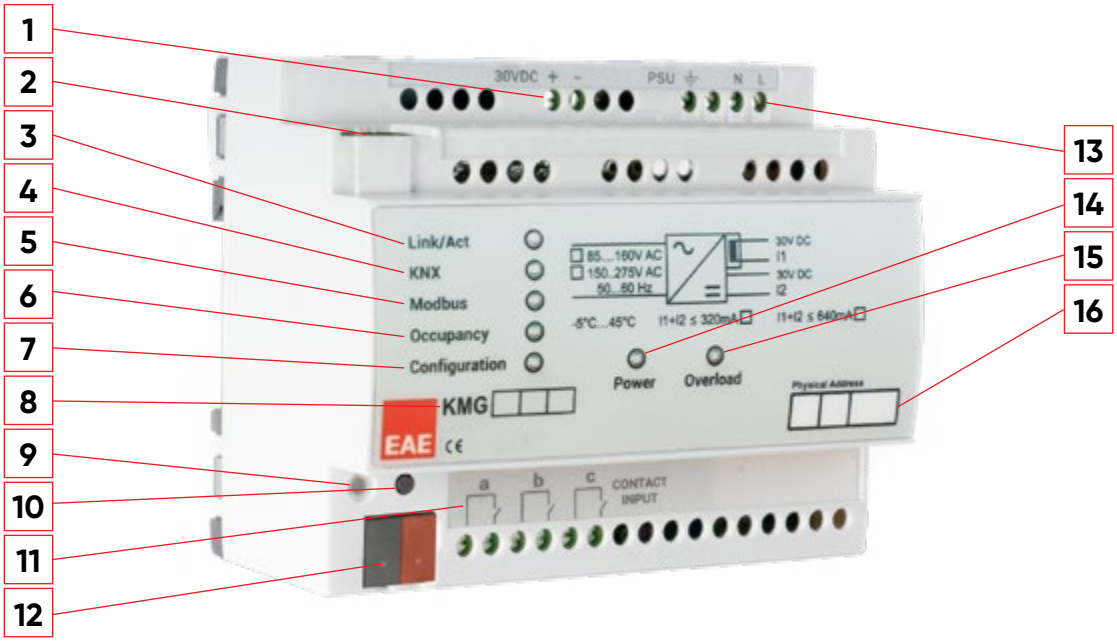
| Product Name | Product Code | Ordering Code | Package Information |
|---|---|---|---|
| EAE KNX Modbus Gateway | SMP KMG103 EAE S-KNX (320mA) | 48198 | 1 unit |



# KMG103

## EAE KNX MODBUS GATEWAY

KMG Function Diagram




| No | Function |
|---|---|
| 1 | KNX Auxiliary Output - 30V |
| 2 | CAT6 Modbus TCP/IP Connection |
| 3 | Ethernet Connection / Transmission LED |
| 4 | KNX Connection / Transmission LED |
| 5 | Modbus Connection / Transmission LED |
| 6 | Occupancy State LED |
| 7 | PC Configurator Software Connection LED |
| 8 | Model Name Label |

| No | Function |
|---|---|
| 9 | Reset LED |
| 10 | Reset / Factory Reset Button |
| 11 | Dry Contact Inputs (Presence A, Door B, Window C) |
| 12 | KNX Connection Terminal |
| 13 | Power Supply Input |
| 14 | Power LED |
| 15 | Overload LED |
| 16 | Pyhsical Address Label |

- KMG is also a gateway between KNX line and Modbus TCP line. Device is reaching Modbus TCP line directly.
- Device has 3 dry contact inputs for ; Doors, Windows and Presence.
- Power, overload and reset statuses are indicated with three different LED indicators. KNX Power supply output is short-circuit and overload protected.
- Power supply can be restarted by pressing reset button on the device.

## KMG Logic Function and Scenes

More energy saving becomes easier with the KNX / Modbus Gateway device.
4 different scenarios can be defined for KMG.

### 1- Pre-Welcome Scene

As soon as the guest enters the room, the desired lighting will turn on in pre-welcome scenario.

### 2. Welcome Scene

During the welcome scenario, as long as the guests are in the room, the use of lighting, HVAC, shading, socket is allowed in the room.

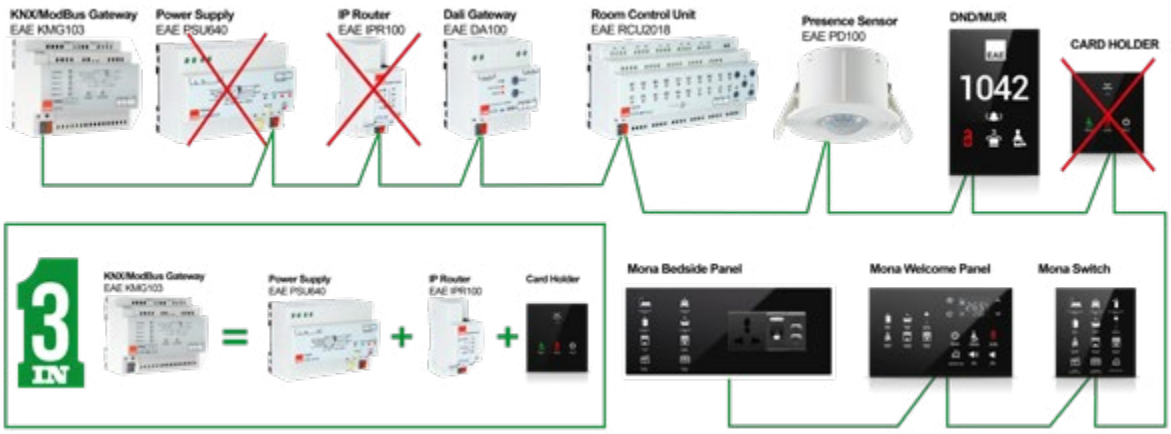
### 3. Leave Scene

When the guest leaves the room, the leaving scenario is activated. All lighting, sockets and air conditioning will be switched off. If desired, the air conditioning state can be set to desired set temperature or mode state.

### 4. Check in / out Scene

After the check-in / out actions of the guests, the desired scenarios can be activated with the GRMS software and the hotel PMS integration.

## GRMS Solution without using Card Holder




## GRMS Solution with using Card Holder