



Hotel - GRMS Solutions





Hotel GRMS About Solution	10
Product	16
Certificates	40
Panel Devices	41
Referances	42

U

Ű

1888

20

Ü

W

•

JJ

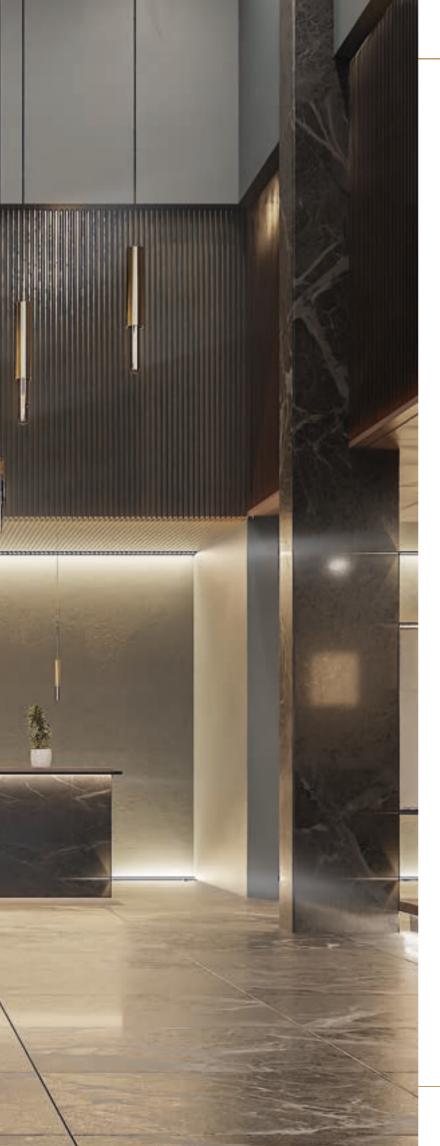
T

1

Y

IL.





EAE KNX Hotel-GRMS Solution provides maximum benefit and the best possible experience for users with a distinguished, elegant and modern design.

EAE's Hotel-GRMS Solution aims maximum safety for guests and investors, as well as provides saving energy thanks to the smart management of lighting, heating and cooling systems.

Products are based on the worldwide KNX standard and enable the system to be expanded with other KNX manufactured products.



EAE group of companies have over 2,500 employees worldwide and EAE products are used in more than 100 countries. EAE Group has over 30 patents, 300 brands and 100 industrial designs.



As EAE Technology, we provide innovative and value-added solutions for KNX applications. All our products are designed, developed, manufactured and tested in our headquarters in Istanbul, Turkey. EAE Technology products are in compliance with international open standards such as KNX, DALI, TCP/IP and WiFi.

EAE Technology is a member of KNX Association and an authorized KNX training center since 2012.





EAE Hotel GRMS Solutions

All you need is EAE...

Every detail in a hotel should match the guest's expectations. The main purpose of EAE Hotel solution is to create a solution that meets all needs with comfort, aesthetics and elegance.

EAE Hotel Solution offers a complete view in a hotel for guests and staff with its technological, aesthetic and easy-to-use products.

- 🔮 DND MUR
- 🔮 Card Holder
- Switch
- Thermostat
- Bedside Panels
- Welcome Panels





Comfort

Your guests will get used to comfort with scenarios that make life easier (such as sleep, movie, comfort mode).

- Lighting control
- Shutter / blind control
- Scene controlSpeaker control
- Heating / cooling unit control
- Easy communication with reception

Combines elegance and aesthetics with user-friendly design.

- Aesthetic

Design

- Initiative



Flexibility

Solutions can be developed according to your requests.

- %100 Configurable touch pads
- Different useage options to save energy

Integrations

- BMS Integration
- PMS Integration
- Door Lock System Integration

Integration into BMS Systems

The following platforms are easily integrated with EAE's KNX systems.

- BACnet
- Modbus
- OPC
- LonWorks
- M-Bus





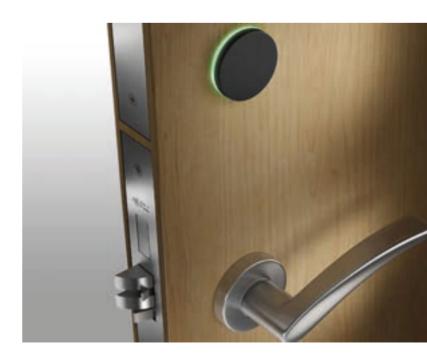
Integration into PMS Systems

The following platforms are easily integrated with EAE's GRMS systems.

- Fidelio
- Opera
- OnQ
- Micros
- Many others...

Integration with Door Lock Systems

It provides the integration of all physical security needs into an energy efficient and easy to manage system.





All you need is EAE...



Mona consist of user friendly elegant glass design. It is suitable to be a part of your design with various color options.



Switches

You can reach all scenario types •••• from a single point with user-friendly usage. Various switch alternatives from 1 button to 12 buttons.



DND MUR

MONA DND MUR information display, where you can easily see whether your guests are in the room, consists of a 100% glass touch screen and includes room number, hotel logo, Laundry, DND, MUR and doorbell buttons.

1042 a 🛓

Sockets & Switches

All the socket types you need, in one plate.



Thermostats

MONA thermostat offers a unique user experience with its touch design and minimalist icons, thermostats continue to add value to your space with frameless design.



Card Holders

MONA Card Holder makes the system able to turn off all electronic items that are left open when guests leave the room automatically.

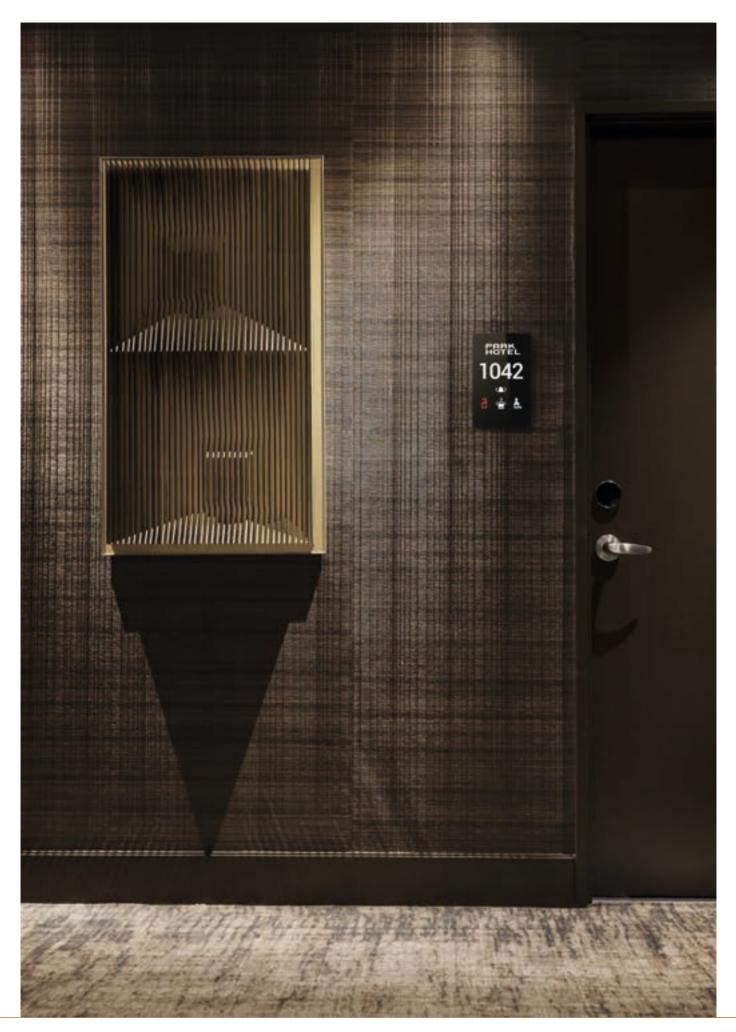
Reads RF-ID Cards information in contactless.



DND MUR

The Mona series DND MUR display, where you can easily see whether your guests are in the room, consists of a glass touch screen and includes room number, hotel logo, Laundry, DND, MUR indicators and doorbell button.





MONC

edside Pane

Mona Serie offers %100 customizable, unique panels. You can create your own bedside panel through the configurator.



Touch operated



Switch and Socket together

Frameless, minimalist design

RGB LED option

Up to more than 5 combined monoblock modules

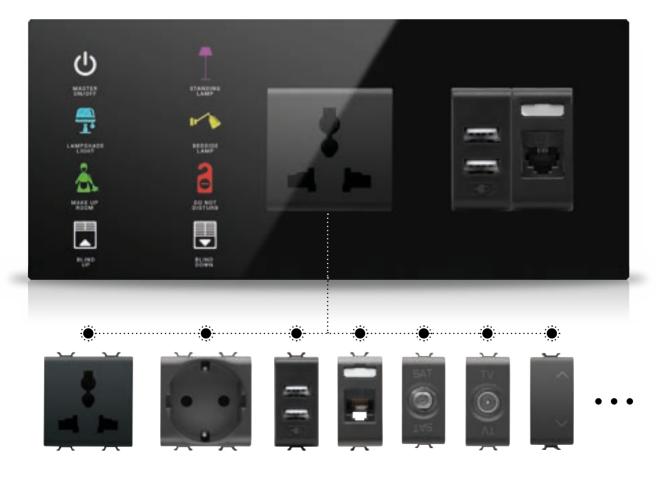


Away, comfort, night and protection modes

Independent programmable buttons

Various color option

Hundreds of different combinations.



All the socket options you need in one.



Welcome Panel

When entering or leaving your room, desired scenarios can be realized with a single touch, and you can experience safety and comfort together thanks to the RF-ID card holder you use at the entrances.

You can combine switches and thermostats with your energy saver. Guests will control many things through one single monoblock panel.

Touch operated

RGB

-``Q́-

2

</>

Glass surface

Switch and Card Holder together

Frameless, minimalist design

RGB LED option

Icon options

Away, comfort, night and protection modes

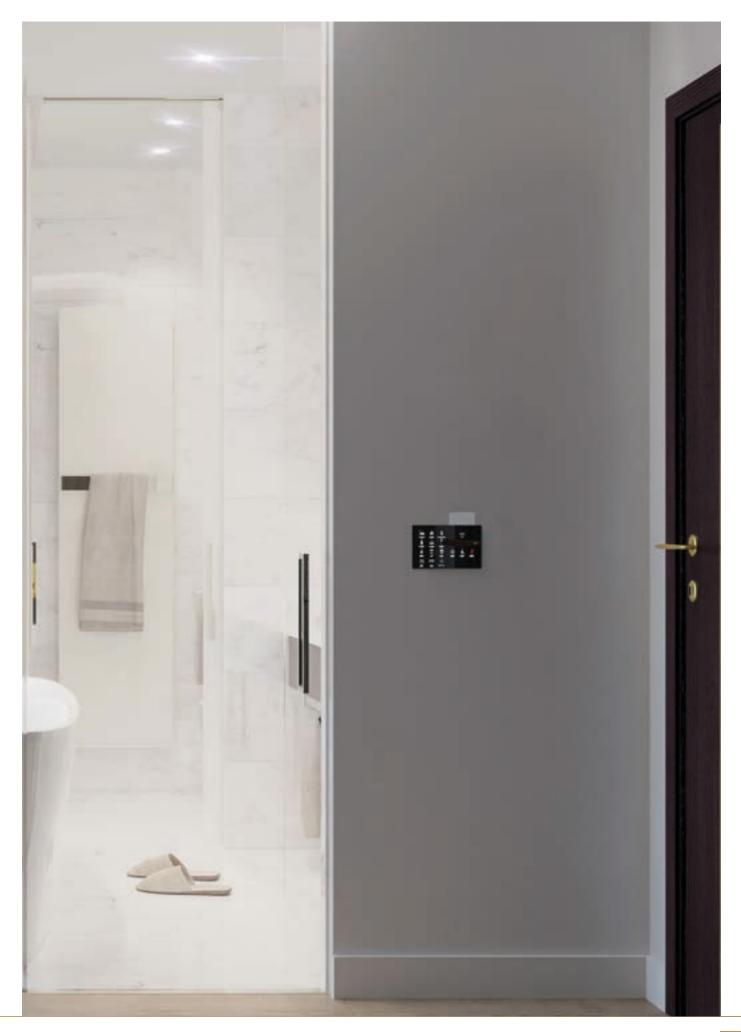
Independent programmable buttons

Various color option

Different combination options







Thermostats

Mona thermostats continue to add value to your space with frameless design. Mona offers a unique user experience and intuitive operation with its touch operated design and minimalist icons.

Thermostats can be combined with switches and sockets as monoblock panels.

Touch operated

L

RGB

-``Q_-

2

Glass surface

Switch and Card Holder together

Frameless, minimalist design

RGB LED option

Icon options

Away, comfort, night and protection modes

Independent programmable buttons

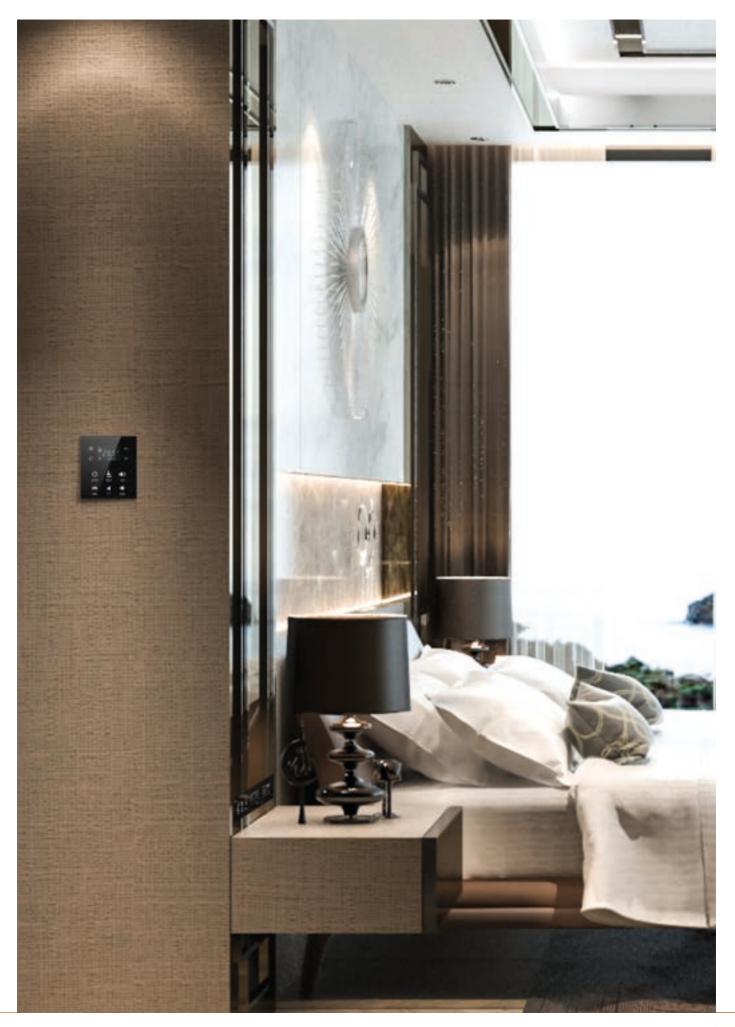
Various color option

Combination with switches, card holders and sockets









Switches

Mona switches continue to add value to your space with frameless design. Mona offers a unique user experience and intuitive operation with its touch design and minimalist icons.

There are hundreds of combination options with thermostats, switches and sockets..

Touch operated

Glass surface

Switch and Card Holder together

Frameless, minimalist design

RGB LED option

Icon options

∟

RGB

-`Ú́-

</>

Independent programmable buttons

Various color option

Combination with switches, card holders and sockets







Sockets

The Mona serie offers glass surface, minimalist design, wide collection up to 5 gang, wide range of colors.

BS standard, European standard and Modular standard sockets are compatible with Mona series.

MODULAR EUROPEAN SOCKETS



EUROPEAN SOCKETS



MODULAR BRITISH SOCKETS



BRITISH SOCKETS



MODULAR ITALIAN SOCKETS



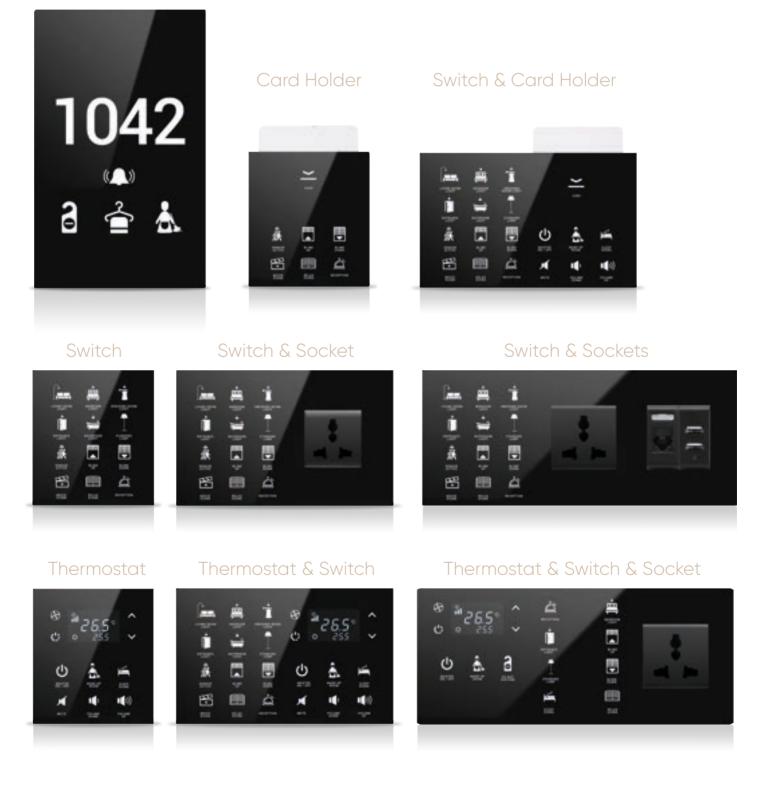




MONOBLOCK HOTEL SERIES

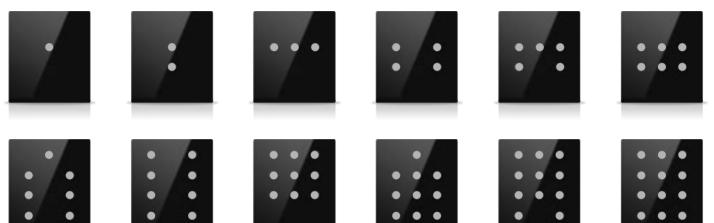
Product Family (Some combination options)

DND MUR



Variations

Switches



Thermostats



Card Holders













Technical Specifications





KNX Thermostat Side (up to 6 buttons)

- Temperature adjustment on display
- Integrated temperature sensor (°C/ °F)
- Fan speed adjustment (1, 2, 3, Auto)
- Different operation modes (Comfort, Night, Away, Protection)
- Fully automatic function mode (Heat Cool transition)
- Control flexibility for all HVAC units including VRF-VRV and AC
- PI proportional, PI PWM, Hysteresis, Fan coil, Split unit controls

KNX Switch Side (up to 12 buttons)

Independent configuration for each button

 Switching 	
• Dimming	
• Blind Control	
 Value Transmitting 	
- Soono Control	

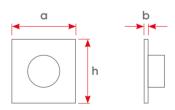
Scene Control

KNX Card Holder Side (up to 6 buttons)

- Compatible with Mifare 13.56 MHz card
- Contactless reading for RFID Card information.
- Avoids mechanical wear and card deformation.
- Detection distance up to 50 mm

	-		
\$			
1012	12	100	
巴	88	ä	
202	54		

Dimensions (mm)	а	b	h
Single	90	12	100
Binary	161	12	100
Triple	232	12	100
Quadruple	303	12	100
Quintet	374	12	100



Protection type	IP 20	EN 60529	
Safety class		EN 61140	
Supply	Voltage Range	21-30V DC, Supply from EIB/KNX line	
	Supply voltage	<<20 mA total	
Temperature	Operating	-5° C + 45° C	
	Storage	-25° C + 55° C	
CE	In accordance with EMC guideline and low voltage regulation		
CE			

Product Code Legend

MN – X –	ХХ				Χ	Х	
	Type S Button T Thermosto CH Card Hold DND DND MUR	ler					
		Butto			Fra	me Type	Frame Gang
Color B- W- XXXX	Black White RAL Code for customizable color	01 02 03 06	01 02 03 04 05 06 07 08 09 10 11 12	01 02 03 04 05 06	FE FME FMI	Frame European Frame Modular European Frame Modular Italian Frame Modular British Frame British	for switch sockets 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Note: Please contact our technical unit for details. (eaetechnology.salessupport@eaegroup.com) The sockets should be at the beginning or end of the monoblock frame, if you are combining switches or thermostat with sockets. Module or core quantity must be specified at the end of the code.

Example Order Code

FRAME EUROPEAN	MN-W-S05T02FE1
FRAME MODULAR EUROPEAN	MN-B-S03FME2X2M
FRAME MODULAR ITALIAN	MN-W-T02S03FMI2
FRAME MODULAR BRITISH	MN-B-S03FMB2
FRAME BRITISH	MN-W-CH03FB1

MOr

otions



ON/OFF



wc

LIGHT

BLIND

DOWN

AWAY





MIRROR LIGHT



BLIND



STAY SCENE



Û CHANDELIER LIGHT



PERIMETER LIGHT



BASIN



WASH

ENTRANCE

LIGHT

20

(+

NIGHT

LIGHT



DIM UP

6

SPOT

LIGHT

.

DAY

LIGHT

<u>-</u>X-

DINING

SPOT

ζ. .



ECO

<u>-<u>N--N</u></u>

CORRIDOR

LIGHT





ROOM

EC0



LIGHT

... others on request

Colors

Black Glass



32 | www.eaetechnology.com

White Glass



Hundreds of RAL surface colors...





Ľ

COVE

LIGHT

VOLUME

DOWN

P-

MOVIE

SCENE

BATHROOM LIGHT



VOLUME UP

ĕ //

SENSOR
ACTIVE

DRAPE

CONTROL



(0) FAN

PENDENT

LIGHT

E

DIM DOWN

LIVING ROOM

LIGHT

RECEPTION



Г

LAMPSHADE

LIGHT

BEDROOM











I۲

BEDSIDE

LAMP

DRESSING

ROOM LIGHT











WINTER MODE

COMFORT













STANDING

LAMP

H

MUTE

e a

SLEEP

SCENE



моор



LAUNDRY

SPOT

COMFORT



KMG103 KNX Modbus Gateway



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.

 $\boldsymbol{\cdot}$ Power, overload and reset statuses are indicated with three different LED indicators.

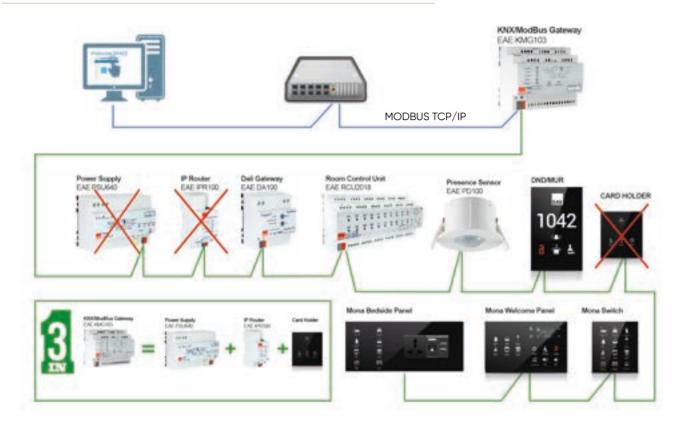
• Power supply can be restarted by pressing reset button on the device.

Type of Protection	IP20	EN 60 529
Safety Class	II	EN 61 140
Insulation Category	Over voltage category Pollution Degree	III EN 60 664 - 1 2 EN 60 664 - 1
Main Supply	Input Voltage Power consumption	150-275V AC, 50-60Hz 7W
Output	KNX Bus	30 VDC +1 / -2V, SELV (Integrated choke) 640mA
Connection	IP Line KNX Line	RJ45 socket for 10/100BaseT, IEEE 802.3 networks Bus Connection Terminal
Display Elements	ETH Link ETH Act LED for programming mode	Satatus Fault
Operating Elements	Function button, Programming button	
Installation	35mm DIN rail mount	EN 60 715 TH 35-75
Temperature Range	Operation Storage	-5°C + 45°C non-condensing -20°C + 60°C
Humidity		5% to 93% no maisture condensation
Dimensions	HxWxD	90mm x W x 70mm
Weight	ббд	
Box	Plastic PA66 housing gry	
CE	in accordance with EMC and low voltage of Device complies with, EN 50090-2-2, IEC 6	

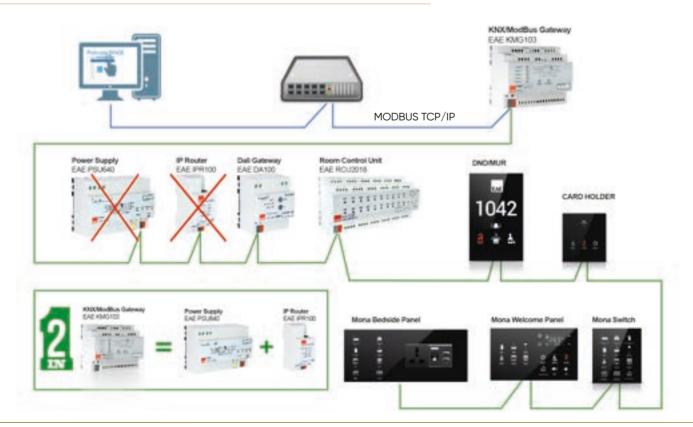
Technical Information

KMG103 KNX Modbus Gateway

GRMS Solution without using Card Holder



GRMS Solution with using Card Holder



KMG103 KNX Modbus Gateway

KNX/Modbus Gateway Logic Function and Scenes

Pre - Welcome Scene

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





Welcome Scene

The use of lighting, HVAC, shading, sockets in the room is permitted as long as guests are in the room during welcome scenario.

Leave Scene

When guest left from the room, the leave scenario is activated at the end of the defined period

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





Check in / Out Scene

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





With Miola Panel, you can easily control your home!

You will be able to receive all the notifications you specify and want to receive from the mobile application, and you will be able to easily learn all the details you follow with the push-notification feature.



«rosometal

Thermostat

All devices in your home are under your control with Rosa thermostats.



Switch

Experience life of comfort with Rosa Metal switches.



«roso







<u>F</u>

ريبي

ථ

١Į

 Thermostat and switch together

Various color option

Touch operated

4mm tempered glass or aluminium surface

Frameless, minimalist design

Independent, programmable buttons lcon options

Navigation LEDs

Feedback LEDs

Additional heating-cooling control

Away, comfort, night and protection modes

Fully automatic heating-cooling transition



Thermostat

All devices in your home are under your control with Oria thermostats.











Switch

Experience life of comfort with Oria switches.















Socket

Moduler Standart

1M Data and Blanking Module - Natural





3M Shaver Socket-Natural



6M Socket + Socket + SAT + Blind Cover - Anthracite

4M Frame - Anthracite



Double Frame Pearl White



British Standart







2 Gang Socket+USB - Gold



European Standart

Quadruple Frame Pearl White



Quintet Socket+DATA+Socket+Sat - Black Glass



2M Mustang Gray



Certificates

EAE Technology products are and will always be in compliance with international open standards such as KNX, DALI, TCP/IP and WiFi.



KNX is the worldwide standard for home and building control. KNX offers at the same time the reliability of a consolidated system, market leader for over twenty years. (470 KNX Members, 8000 Products, 470 KNX Training Centers, 83000 KNX Partners, 190 Countries)



DALI (Digital Addressable Lighting Interface) is a protocol for digital lighting control that enables the easy installation of robust, scalable and flexible lighting networks.



EU rules restricting the use of hazardous substances in electrical and electronic equipment to protect the environment and public health.



This standard is based on a number of quality management principles including a strong customer focus, the motivation and implication of top management, the process approach and continual improvement. These principles are explained in more detail in ISO's quality management principles.



The EAC certifications are issued by independent EAC certification bodies and their laboratories accredited by the relevant agencies of the five members of the EAC Economic Union: Russia, Belarus, Kazakhstan, Armenia and Kyrgyzstan.



Panel Devices

RCU FAMILY

EAE KNX - ROOM CONTROL UNITS



UD106 EAE KNX - UNIVERSAL DIMMER



PSU320 / PSU640 EAE KNX - POWER SUPPLY 320mA/640mA



IPR200 / IPI200 EAE KNX - IP ROUTER -IP INTERFACE



HOTEL GRMS DEMO CASE



PD100 / MD100 / HD100 / CD100 EAE KNX - SENSOR



SD110 EAE KNX - 1-10V DIM ACTUATOR



MIO1616 EAE KNX - MULTI INPUT OUTPUT



EAE KNX - LINE COUPLER

MONA DEMO BOX

LC200

EIMAR

EAE KNX - KNX Modbus Gateway

....

......

KMG103





UI108 EAE KNX - UNIVERSAL INTERFACE



FCA100 EAE KNX - FANCOIL ACTUATOR



SW108 / SW104 EAE KNX - RELAY MODULE



ACGME 100 MITSUBISHI AC GATEWAY



ROSA DEMO BOX



ROSA DEMO CASE





N rriott HOTELS · RESORTS · SUITES Le MERIDIEN MARRIOTT HOTEL Georgia



MG PHASELIS/BAY

NG PHASELIS BAY HOTEL Antalya

RIXOS PREMIUM BODRUM Mugla

RIXOS



Marriott AUTOGRAPH COLLECTION AUTOGRAPH COLLECTION

MARRIOTT

Istanbul

MILLENNIUM MILLENIUM WEST HOTEL Istanbul



Cielo Hote CIELO HOTEL Qatar



Radisson

RADISSON HOTEL Izmir





THE OBA HOTEL Bodrum



MABIN HURA MALDIVES Maldives

GURDAL HOTEL

Istanbul





GRAND HOTEL Nijer







Portugal

NAL HOTELS & RESORTS * * * * * NAU HOTEL



GRAND GALATA GRAND GALATA HOTEL Istanbul



KARÛVAN KARAVANSARAY COMPLEX CLOUD NINE Kazakhistan





Russia



FOLKART VEGA FOLKART VEGA



FOLKART BOYALIK Izmir



BODRUM NEF GOLKOY Bodrum



MESO DO RUM MESA DEMIRBUKU Bodrum



CUDUKU 28

MESA CUBUKLU 28 Istanbul



VADIKORU RESIDENCE Istanbul





ROUTE ISTANBUL Istanbul





CENTRAL BALAT RESIDANCE Bursa



BONNEVILLE BONNEVILLE MIHRAPLI Bursa



BRODSKY BRODSKY APARTMENT

Russia



GAYDA *Atasehin* Mutlulugun temeli, mükemmeli seçmektir.

GAYDA ATASEHIR Izmir







DIA BELLA — Mimaroba — DIA BELLA

Istanbul





S BAHCE MAN Can





MANDARIN VILLAS Canakkale





IS CADDE GYO Istanbul





ATATÜRK KÜLTÜR MERKEZİ BAŞKANLIĞI ATATURK CULTUREL CENTER İstanbul





NATIONAL DEFENCE UNI. LIBRARY İstanbul





KALYON HOLDING GENERAL CENTER Istanbul



WAR VETERANS **REHABILITION CENTER** Ankara





ETIMADEN for life

ETI MADEN ENTERPRISES

HAVELSAN HAVELSAN CENTRAL BUILDING Ankara

X





DSI ADMINISTRATIVE BUILDING Izmir





BEYKOZ NUN SCHOOLS

İSTANBUL MEDENİYET ÜNİVERSİTESİ MEDENİYET UNIVERSITY LIBRARY İstanbul

վլի



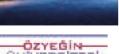


GONDAR UNIVERSITY Ethiopia

TURKCELL DATA CENTER Ankara and Corlu

TURKCELL





OZYEGIN UNIVERSITY Istanbul





NESIBE AYDIN EDUCATIONAL INSTUTIONS İstanbul Ankara











44 | www.eaetechnology.com

MARMARA UNIVERSITY

Istanbul



YDA' center

YDA BUSINESS CENTER Ankara

NIN Istanbul











PRESIDENCY SYMPHONY ORCHESTRA Ankara





PRESIDENCY AHLAT COMPLEX Bitlis





ERDEMLI COURTHOUSE Mersin

EMLAK PARTICIPATION

BANK BUILDING

Istanbul



İLETİŞİM BAŞKANLIĞI

COMMUNICATION PRESI-DENCY OF TURKEY





BURSA REGIONAL COURT OF JUSTICE Bursa

HOUSE Adıyaman



HIGH ELECTION BOARD

BUILDING

Ankara



ADIYAMAN GOVERNMENT



ALANYA COURTHOUSE

Antalya



SIVAS GOVERNORSHIP Sivas





GUNGOREN MUNICIPALITY BUILDING Istanbul



TÜRKİYE CUMHURİYET MERKEZ BANKASI

ANTALYA CENTRAL BANK Antalya





MINISTRY OF YOUTH AND SPORT BUILDING İstanbul





BAGCILAR MUNICIPALITY BUILDING Istanbul





CANAKKALE MUNICIPAL BUILDING Canakkale





DULKADIROGLU MUNICIPALITY BUILDING Kahramanmaras









Tekirdag





Kocaeli Kocaeli





IZMIR CITY HOSPITAL







GIRESUN CITY HOSPITAL Giresun





SIVAS NUMUNE HOSPITAL *Sivas*





MAMAK HOSPITAL Ankara



KONYA NUMUNE HOSPITAL Konya





TARSUS PUBLIC HOSPITAL Mersin







AGRI PUBLIC HOSPITAL





TAKSIM FIRST AID HOSPITAL Istanbul



MEDICANA

MEDICANA HOSPITAL





ALGERIA HOSPITAL PARKING LOT COMPLEX Algeria

SAKARYA WOMEN AND

MATERNITY HOSPITAL

Sakarya





ISTANBUL FINANCIAL CENTER HALK BANK GYO Istanbul



ISTANBUL FINANCIAL

CENTER BDDK BUILDING





CENTER 1-13 RECREATION İstanbul

TURKISH

AIRLINES

THY SIMULATION





ISTANBUL AIRPORT TURKISH AIRLINES BUILDINGS BUILDING Istanbul

SOCIAL SECURITY

Kayseri

CORPORATE BUILDING





CORPORATE BUILDING Elazig





SPECIAL PROJECT AREA İstanbul





ORD. PROF. DR. SULHI DON-MEZER EDUCATION CENTER Istanbul





DICLE ELECTRIC A.Ş. Diyarbakır



IST. FINANCIAL CENTER

SIGORTA A.S.

İstanbul



PTT INTERNATIONAL CAR-GO PROCESSING CENTER İstanbul





DISASTER and EMERGENCY MANAGEMENT CENTER Erzincan





7. MAIN JET BASE COMMAND Malatya



 \mathcal{O}^{*} teknopark istanbul TECHNOPARK Istanbul



AFA

DISASTER and EMERGENCY MANAGEMENT CENTER Kahramanmaras













SENEGAL STADIUM Senegal





ERYAMAN STADIUM Ankara



GENCLIK VE SPOR BARANLIGI

CEMAL KAMACI SPORT COMPLEX Istanbul



top interieur*

TOP INTERIEUR FURNITURE Belgium

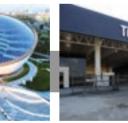


PHILIP MORRIS PHILIP MORRIS FACTORY Kazakhistan



Kalyon **KALYON SOLAR**





😫 Türk Traktör

TURK TRACTOR Sakarya - Ankara



Izmir





KUTAHYA CERAMIC Kutahya



NUR SULTAN MOSQUE

Kazakhistan



BSH Cerkezkoy



NAZARBAYEV CENTRE

Kazakhistan



Azerbaijcan





KORDSA FACTORY Kocaeli

ANDAC AUTOMOTIVE TEKFEN HOLDING **ARCHIVE BUILDING** Adana











tempoint TEM POINT MALL Istanbul





OYAK PORT Kocaeli





VEGA MALL SUBAYEVLERİ Ankara







nevcarşı **NEV CARSI USKUDAR** Istanbul





TEI MOTORS Eskisehir



MILAHA MILAHA LOGISTIC Qatar





ANKARA IS GYO TOWER Ankara



REPKON **REPKON FACTORY**

İstanbul







GENERAL DIRECTORATE

OF HIGHWAYS BUILDING

Ankara

Mercedes-Benz MERCEDES BENZ FACTORY Aksaray



TCI NR

eer

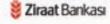
EKOL LOGISTIC

Kocaeli



TURK TELEKOM BUILDING Istanbul



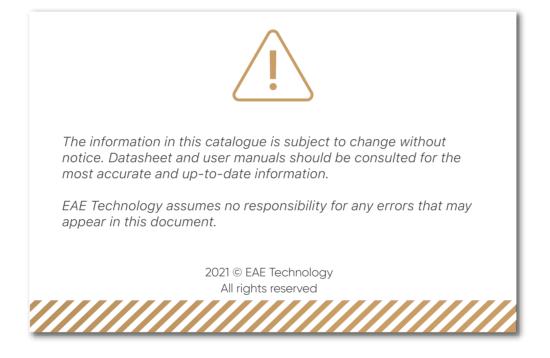


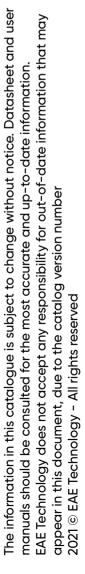
ZIRAAT BANK DATA CENTER Istanbul





SISECAM FACTORY Eskişehir







EAE Teknoloji A.Ş. Ikitelli Organize Sanayi Bölgesi Eski Turgut Ozal Caddesi No:20 Başaksehir / Istanbul - TURKEY Tel. : +90 212 413 21 00 (pbx) Fax : +90 212 549 37 90 www.eaetechnology.com

