Product:	ComBridge Multi Control Gateway (MCG)
Product line:	KNXnet/IP Interface
Order number:	3622-141-01
KNX-APD:	Appl-3622-MCG-01-0110-en
BMA:	BMA-3622-MCG-01-0110-en
ETS-PDB:	3622-01-0110(MCG).VD2

KNX ComBridge MCG
Multi Control Gateway

Description

The ComBridge Multi Control Gateway (MCG) combines KNXnet/IP functionality with standard KNX functions such as time scheduling, scenes, event trigger and logic function in a single device.

As a KNXnet/IP device, the ComBridge MCG supports two types of connection:
The KNXnet/IP tunneling connection is used in connection with the ETS3 to program KNX devices via the TCP/IP network.

The KNXnet/IP object server connection makes an active KNXnet/IP tunneling connection and the visualisation of a KNX installation possible at the same time. In connection with the visualisation software ComBridge Studio Suite, a range of tasks can be performed and a web-based status display is possible.

As the standard KNX device, the MCG acts as a multi-function module. The MCG's functions make it possible to configure over 100 time scheduling functions, 30 event triggers that contain scenes of up to 200 KNX objects, as well as 30 logic gates

for logic functions. Up to 80 KNX objects, which are required for the complex functions above mentioned, are programmed using the ETS.

Up to 100 weekly schedule points and up to 50 periods, switched on and off through the points, can be defined as time switch functions. In addition, calendar scheduling points, i.e. switch functions that may be repeated annually, can be programmed. The astronomic function enables scheduling at sunrise and sunset.

In addition, the MCG has a real-time clock, which enables the configured time schedule functions to be performed at the required times. The MCG can be configured in such a way that it synchronizes with the current time of an Internet time server or the current time of another KNX device. This means an MCG can either be a time server itself or it can be a time client.

The device time is set on the MCG with 3 buttons. The device display shows the current time. The programmed IP address and the MAC address are also shown on the display.

Related products:

ComBridge Studio Suite (CBSS)

ComBridge Web Communication Interface (WCI)

ComBridge Net Communication Interface (NCI)

ComBridge Router (R)

Applications, manuals and descriptions are available in our Customer Center under www.ipas-products.com.

Application

The MCG is the ideal device for projects where KNX devices are programmed via the IP network and several time scheduling programmes in connection with scene control are required at the same time.

The KNXnet/IP tunneling connection is used to program the KNX devices. If the MCG has been programmed with the ETS, the network connection is used to quickly and easily configure the group addresses with the above mentioned functions by using the MCG Configurator. The program MCG Configurator is simply loaded with a browser such as Internet Explorer. The intuitive menu enables even inexperienced users to perform the programming quickly.
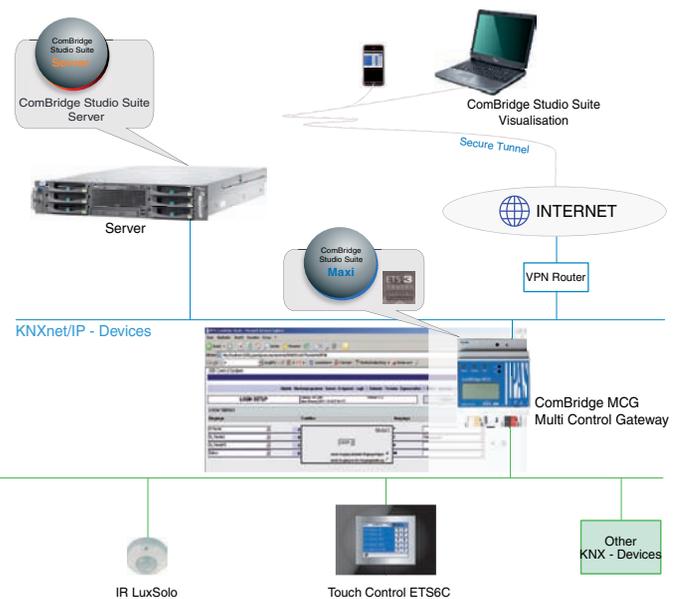
In the time schedule service, the time and weekdays during which the scheduled function is to be performed, are assigned to the KNX object. The user can also define astronomic times. This means a KNX object is switched exactly at the local time of sunrise or sunset.

Scenes can be performed with a timer between two KNX events, thereby constructing scenarios such as for example creating atmospheric light effects.

Scene triggers can be linked to certain conditions in order to flexibly start the scenes.
A graphical surface ensures the easy creation of logic plans. The user can define internal variables in order to create complex connections easily and transparently.

In connection with a KNXnet/IP visualisation, the MCG provides a cost-effective KNX component as it combines a programming interface, a KNX multi-function module, a real-time clock and a KNXnet/IP visualization interface all in one device.

ComBridge Studio Suite
Scenes
ComBridge Studio Suite
Server

ComBridge Studio Suite
Visualisation

Secure Tunnel

Server

ComBridge Studio Suite
Maxi
ETS 3

INTERNET

VPN Router

KNXnet/IP - Devices

ComBridge MCG
Multi Control Gateway

KNX - Devices

Design Tableaus
Chipcard Reader
Touch Control ETS6M
IR LuxSolo
Touch Control ETS6C
Other
KNX - Devices

Specifications: ComBridge MCG

Connectors:	Bus line: Bus coupler KNX, Voltage coupler: 12 to 30V AC/DC, RJ45 socket for Ethernet
Dimensions:	Wide: 70 mm, High: 55 mm, Installation depht: 86 mm
Weight:	150 g
Casing:	REG case 4TE for 35mm DIN rail mounting 35mm
Power Supply:	KNX plus external 12 to 30V AC/DC
Protection type:	IP20 according EN 60529, Din VDE 0470
Class:	I according IEC 1140

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