



## BCV90010-X

# Multi protocols Cloud based Visualization & Control Server



### Features

- The BCV90010-X is a multi-protocols visualization server, supports many protocols and standards such as MQTT, KNX, Modbus, BACnet, HTTP, ...etc.
- The BCV90010-X has four models:
  - A. BCV90010V: dedicated for voice commands only and it can be integrated with Alexa and Google Home.
  - B. BCV90010E: is the basic version of the servers, supports KNX for classic and basic controls.
  - C. BCV90010Q: is the cloud base version of BCV90010L supports also MQTT.
  - D. BCV90010P: is the cloud based professional version, supports MQTT & KNX with the ability to integrate many devices and systems.

With its intuitive mobile apps along with PC applications along with the configurator software, users will be able to design and configure the most powerful controls and manage the buildings' automation systems, it is also possible to control via voice commands given to the Amazon and Google assistants.

### Applications

- Lighting control systems.
- Heating/Cooling control Systems.
- Safety & security systems.
- Shutters & Blinds.
- Irrigation systems.
- Guest Room management systems (GRMS).
- Parking Management systems.
- Pumps, Valves, Parking Barriers & E-Locks control.

### Configurations

#### Network Settings:

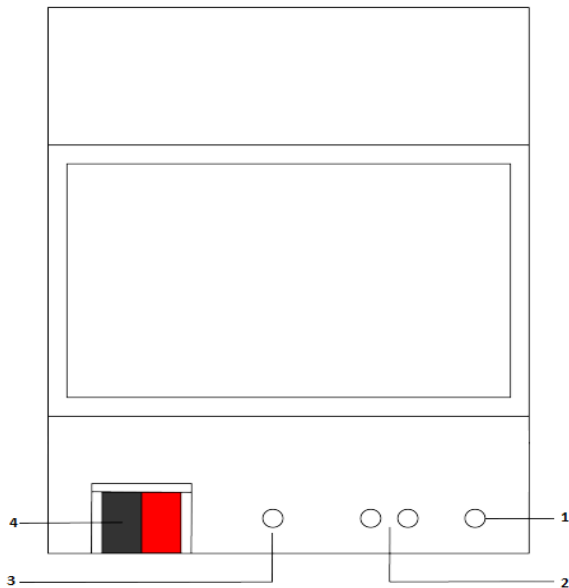
The BCV90010-X server has a default IP address 192.168.1.100 to be used while configuring the device via the LAN.

The default gateway is 192.168.1.1 and sub netmask: 255.255.255.0.

The server default access credentials:  
Username: admin  
Password: password



## Connection Diagram



### Power Led

The red led indicates the status of the power supply feeding the server.

### Communication LED's:

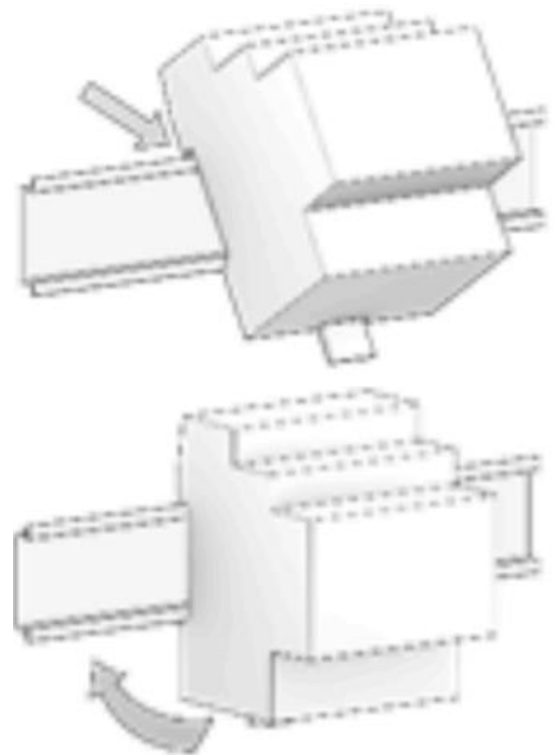
Yellow led indicates RX "receiving Data", while Green Led indicates transmitting data "TX" for KNX, RS485 and Z-WAVE respectively.

### Connection Points:

1. LED POWER
2. LED SERVICE RS485
3. LED SERVICE KNX
4. KNX bus terminal block

## Mounting & Safety instructions

- The device should only be installed and put into operation by qualified electrician or authorized person.
- Failure to observe the instructions may cause damage to the device and result in fire and other hazards
- Do not connect the RS485 or Z-wave inputs to any external power source.
- The Server Power Suppl is 5V - DC.
- Ensure that there is enough insulation and space between the 230 VAC voltage cables and input cables.
- Installation only in dry locations and on a 35 mm DIN rail (35 mm) and do not expose this device to direct sunlight, rain or high humidity.
- Do not use aerosol sprays, solvents or abrasives that might damage the device.
- Accessibility of the device for operation and visual inspection must be provided.





## Technical Data

Server				
Device Model	BCV90010-V	BCV90010-E	BCV90010-Q	BCV90010-P
Power Supply	5V DC	5V DC	5V DC	5V DC
Ethernet Port	Yes	Yes	Yes	Yes
USB Port	Yes	Yes	Yes	Yes
RS485 Port	No	Yes	Yes	Yes
Z-Wave Port	No	Yes	Yes	Yes
Supported Protocols/Standards				
KNX Bus	No	Yes	Yes	Yes
BACnet	No	Yes	Yes	Yes
MQTT	No	No	Yes	Yes
Z-WAVE	No	Yes	Yes	Yes
Zigbee	No	Yes	Yes	Yes
Modbus	No	Yes	Yes	Yes
Supported Features				
Number of users	0	1	1	Unlimited
Cloud based	No	No	Yes	Yes
Number of Zones	0	Unlimited	Unlimited	Unlimited
Mobile App's (iOS, Android & Windows)	Yes	Yes	Yes	Yes
Voice control	Yes	Yes	Yes	Yes
Number of KNX group addresses	Unlimited	Unlimited	Unlimited	Unlimited
Number of BACnet Devices	0	Unlimited	Unlimited	Unlimited
Number of Modbus registers	0	Unlimited	Unlimited	Unlimited
Number of scenarios / recorded scenarios	0	Unlimited	Unlimited	Unlimited
Number of schedules	0	Unlimited	Unlimited	Unlimited
Number of logic operations	0	0	0	Unlimited
Video Surveillance	No	No	No	Yes
Environmental parameters				
Operating Humidity (non-condensing)	>90 RH			
Storage Humidity	Up to 92%			
Operating temperature	-1°C ~ + 45°C			
Storage Temperature	-15°C ~ +70°C			
Transport Temperature	-15°C ~ +75°C			
Device Parameters				
Protection type	IP20			
Insulation Class	II			
Mounting	(35m) Din-Rail			
Flammability	Non-Flammable Product			
Device Weight (g)	158			
Device Dimensions (W X H X D) mm	73 X 90 X 64			
Tightening torque	Maximum 0.5 Nm			
Available colors	White & Light Gray			