Facility Pilot Server
Art. No. : FAPV-SERVER-REG
Facility Pilot Server
Art. No. : FAPVSERVERREGGB

Operating instructions

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Fire hazard! Operation exclusively with the power supplies listed under accessories

Danger of electric shock. When connecting SELV/PELV systems, ensure safe isolation from other voltages.

These instructions are an integral part of the product, and must remain with the end customer.
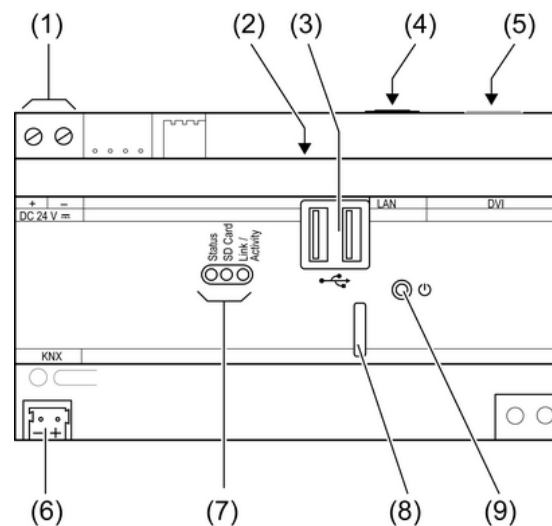
2 Device components

Figure 1: Front view

(1) Connection for external supply
(2) 2x USB socket
(3) 2x USB socket
(4) Ethernet connection
(5) Monitor connection, DVI
(6) KNX connection
(7) Status LED
(8) Slot for micro SD card
(9) Push-button On/Off

3 Function

System information

This device is a product of the KNX system and complies with the KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding.

The function of this device depends upon the software. Detailed information on loadable software and attainable functionality as well as the software itself can be obtained from the manufacturer´s product database. Planning, installation and commissioning of the device are carried out with the aid of KNX-certified software. The latest versions of product database and the technical descriptions are available on our website.

Intended use

- Operation and visualisation of system statuses and information on building automation
- Displaying information services
- Operation with power supply (see accessories)
- Mounting on DIN rail according to EN 60715

Product characteristics

- DIN rail PC with KNX connection
- Operating system: Windows® Embedded Standard 2009
- Integrated graphics card and network adapter
- Interfaces – accessible from front: Slot for micro SD memory card, 2x USB (2x 500 mA)
- Interfaces – accessible from above: Ethernet, DVI, 2x USB (1x 500 mA)
- Facility Pilot version for RMD server preinstalled
- Two internal KNX interfaces for simultaneous access to KNX system by local Facility Pilot and remote maintenance from outside

ⓘ When installing additional software or saving data, note the system resources.

Operating system: Windows Embedded

The operating system is based on Microsoft® Windows® XP Professional in a memory-optimised version. All the components required for the device function are preinstalled.

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4 Operation

Switching a device on or off

Power supply is switched on, LED **Status** lights up yellow. The LED **Link/Activity** indicates a connection to an Ethernet network.

- Switching on: Press the push-button (9).

  The device switches on.

  The LED **Status** lights up green.

- Switching off: Press the push-button (9) briefly.

  The operating system shuts down and switches off.

ⓘ When delivered, the device logs in automatically with the username **FAPV-SERVER-REG** and the password **jung** . Additional users can be added to the system and the settings changed.

Operation via remote connection

The device can be operated within local networks via remote connection – without monitor, keyboard and mouse – e.g. using the preinstalled TeamViewer software.

ⓘ Preset IP address at delivery: 192.168.178.111
Preset password: **12345**

File-based write filter

The device contains an SSD drive with no moving parts as a mass storage facility. To prevent accidental changes to the configuration, the drive is protected by a file-based write filter - FBWF. Write operations to the protected are a diverted to a virtual drive in the RAM. Changes

to this data are shown in the directory but are only available until the device is restarted. The previous data is restored is the device is switched-off or there is a power failure.

Changes to the "My Documents" directory are excluded from write-protection and are always applied.

The write filter must be switched off:
- When directories are created, which are to remain intact after a restart,
- When programs are installed.

The system must be restarted:
- When the write filter is switched on or off,
- When the size of the virtual drive is changed,
- When memory compression is switched on or off.

The user can change the settings for the file-based write filter.

Installing programs

Before installing additional programs, take the system requirements of the programs into account.
- Deactivating write filters: In the info area or the Windows taskbar, select the key icon for the write filter with the mouse pointer.
- Select the menu item "Write protection".
  The window for the write filter settings opens.
- Deactivate write protection.
- Press the "Apply" button.
- Press the "Close" button.
- Shut down the device and restart it.
- Install the program, e.g. from a USB stick.
- Activating write filters: Select the key icon with the mouse pointer.
- Select the menu item "Write protection".
- Activate write protection.
- Press the "Apply" button.
- Press the "Close" button.
- Shut down the device and restart it.

5 Information for electrically skilled persons

DANGER!
Electrical shock on contact with live parts in the installation environment.
Electrical shocks can be fatal.
Before working on the device, disconnect the power supply and cover up live parts in the working environment.

5.1 Fitting and electrical connection

Fitting the device

Observe the temperature range. Do not cover the ventilation openings on the housing shoulders. Ensure adequate cooling.
- ⓘ Air should be able to circulate through the ventilation openings on the housing shoulders from the bottom to the top where possible.
- Mount the device on DIN rail.
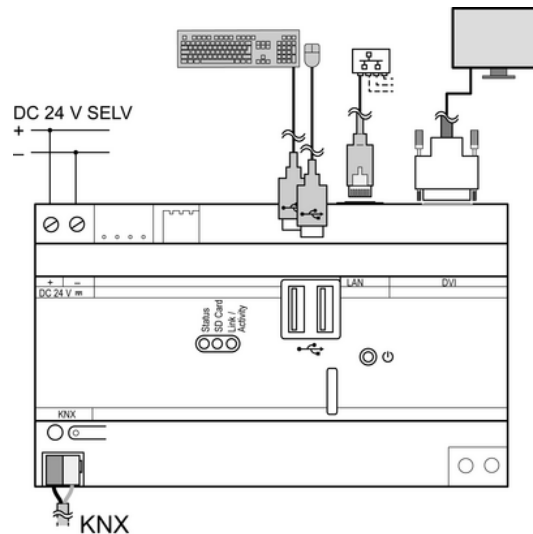
Connecting the device

Figure 2: Connection example

- Connect power supply, keyboard, mouse, supply cable, monitor and KNX cable according to the connection example (figure 2).

6 Appendix

6.1 Technical data

Supply
Rated voltage	DC 24 V SELV
Power consumption	approx. 13.8 W
	max. 22 W (at full load USB)

Ambient conditions
Ambient temperature	0 ... +35 °C
Storage/transport temperature	-10 ... +70 °C
Relative humidity	15 ... 85 % (No moisture condensation)
Protection class	III

System
Processor type	AMD G-T40E DualCore
Clock speed	2× 1.0 GHz
L1/L2 cache	64 kB / 512 kB
System chipset	AMD A55E Controller Hub
Mass storage	4 GB SSD
RAM	2 GB RAM

Display
Connection	DVI
Resolution:	1920×1200 pixels
Number of colours	16.7 millions

Network
Type	10/100/1000 MBit/s Ethernet
Connection	RJ45-socket 8-pin

Slot for memory card
Type	Micro-SD-/SDHC
Memory	max. 32 GB

USB version	1.1/2.0

Dimensions
Fitting width	144 mm / 8 modules

KNX

KNX medium	TP 1
Commissioning mode	S-mode
Rated voltage KNX	DC 21 ... 32 V SELV
Power consumption KNX	max. 350 mW
Connection mode KNX	Standard terminal

6.2 Accessories

Power supply 24 V, for rail mounting   Art. No. : NT 2415 REG VDC

6.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office.

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