VIMAR 40165 IP Riserless Gateway Instruction Manual

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IoT Gateway for connection to the Vimar Cloud of an IP video door entry system. Once the necessary licences have been installed, it provides the video door entry service up to a maximum of 100 virtual apartments. Up to 5 instances of APP can be associated with each apartment. Installation on DIN rail (60715 TH35), occupies 4 modules size 17.5 mm.

Features

- Power supply: 12-30 Vdc SELV
- Consumption:
  - 300 mA max at 12 V d.c.
  - 140 mA max at 30 V d.c.
- Max. dissipated power: 4 W
- Connection to the respective LAN networks via RJ45 socket outlet (10/100 Mbps)
- With 4 backlit control buttons
- Operating temperature: – 5 +40 °C (indoor use)
- Operating ambient humidity 10 – 80% (non-condensing)
- IP30 degree of protection

Connections

- Terminals:
  - power supply 12 – 30 V d.c. SELV
- RJ45 1 socket outlet for connection to the router providing the Internet connection (ETH1)
- RJ45 2 socket outlet for connection to IP video entryphone network (ETH2)

- Port for micro SD card (not used) Gateway 40165 allows communication between the IP video door entry system network and the Vimar Cloud. This makes it possible to manage the IP video door entry system remotely using the dedicated management portal.

Operation

Gateway 40165 diversifies its functions according to the type of user (installer, plant manager or end user). Gateway 40165 requires an efficient band of approximately 2.5 Mbps (in upload) for each video door entry call. Consequently, the band required is 2.5 Mbps multiplied by the maximum number of simultaneous calls that the system needs to support. This number cannot in any case exceed the value of 5 simultaneous calls per gateway. No specific network configuration is required, provided that:

- ETH1 and ETH2 are configured on separate LANs and do not overlap
- In the presence of a firewall, make sure traffic is permitted on the following ports:
  - TCP 443, 7042, 8884
  - UDP 123, 3478 and from 20000 to 50000

Installer

With Video Door IP Manager:

1. configures gateway 40165 locally connected to the video door entry system LAN.
2. loads the licences necessary for use. With the management portal:
3. utilises the connectivity services offered by gateway 40165 operating on the system remotely (contacts list management, actuations, access control)

Plant Manager

With the management portal:

utilises the connectivity services offered by gateway 40165 operating on the system remotely (contacts list management, actuations, access control, sending users messages).
User With the management portal:

1. utilises the connectivity services offered by gateway 40165 operating on the system remotely (changing the apartment name visible on the entrance panel). With the Video Door APP.
2. receives the video door entry calls from outdoor stations or control units.

Functions available from the APP or management portal

Functions available via APP:

- Outdoor unit self-starting.
- Outdoor unit lock opening.
- Video door entry calls from outdoor stations/ and/or control units to the APPs.
- Activating system actuations (stair light, auxiliary functions).

- Viewing of system CCTV.
- Intercom function not envisaged

Functions available from the management portal:

- System contacts list management.
- Access control management.
- Management of CCTV visibility rights from apartments.

Key functions

- F1: (only on master gateway): Forces synchronisation with management portal (press for at least 1s).
- F2: (only if ETH1 is configured in DHCP mode): sends request to the DHCP server for a new IP address for the ETH1 interface.
- F3: no function.
- F4: no function.

LED indications

- F1 (cloud connection state):
- permanently on: cloud connected;
- flashing: cloud connection problems;
- 3 rapid blinks after the button is pressed to indicate synchronisation with cloud has begun.
- **F2 (ETH1 connection state):**
  - on: connection active and running;
  - off: no Ethernet connection (cable disconnected).
- **F3 (ETH2 connection state)**:
  - on: connection active and running;
  - off: no Ethernet connection (cable disconnected).
- **F4 (operational state):**
  - short blink (250ms ON, 750ms OFF): gateway not configured;
  - long blink (750ms ON, 250ms OFF): gateway configured but not operational;
  - double 200ms blink every 2s: gateway operational, only on master gateway;
  - off: gateway operational, only on slave gateway.

Installation rules

- Installation must be carried out by qualified persons in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.
- The gateway 40165 must be installed inside the electrical panels and must therefore be housed in the containers with DIN rail support.
- The gateway 40165 can be powered by:
  - Power supply 01831.1 (output 12V).
  - Power supply 01400 or 01401 (via output 29V “AUX”).

- Maximum power cable length: 10 m (from power supply to gateway 40165).
- Power cable section: 2×0.5 mm2 up to 2×1.0 mm2.
- The ethernet line must be wired with a UTP (non-shielded) cable, CAT.5e or superior.
- Maximum Ethernet cable length: 100 m.
- The gateway 40165 must be wired to the IP video door entry system (via the ETH2 interface) according to the rules adopted for a standard IP video door entry system.
- All electrical interfaces on the device are SELV. The device must therefore be installed in high-voltage-free SELV electrical panels; if present, the installer must guarantee double insulation between the high voltage and the SELV.
- In the event of access to mini/micro USB, micro SD ports and reset button (SELV interfaces), comply with the measures required to prevent electrostatic discharge from the user, which could damage the device.

FCC (United States) Regulatory Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
   Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. Responsible Party – U.S. Contact Information: VIOLETTE ENGINEERING CORPORATION **https://violetteengineering.com/**

WEEE – Information for users

If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life. The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one. Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m2, if they measure less than 25 cm. An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.

Documents / Resources

	VIMAR 40165 IP Riserless Gateway [pdf] Instruction Manual 40165 IP Riserless Gateway, 40165, 40165 Riserless Gateway, IP Riserless Gateway, Riserless Gateway, IP Gateway, Gateway

References

- Violette Engineering
- Violette Engineering