VIMAR 01500.2 WELL-CONTACT PLUS Standard Automation System Instruction Manual

Contents

VIMAR 01500.2 WELL-CONTACT PLUS Standard Automation System

Product Information

Product Name: WELL-CONTACT PLUS 01500.2 – 01501.2

Description: The WELL-CONTACT PLUS is a power supply unit designed for use with KNX standard systems. It provides a bus output of 30 Vdc and an auxiliary output of 30 Vdc. The power supply operates on a voltage range of 120-240 V~ at 50/60 Hz. It features a decoupling coil and can be installed on a DIN rail (60715 TH35). The unit occupies 4 modules of 17.5 mm.

Model Variants

- 01500.2 – Power supply unit with bus output of 30 Vdc 320 mA, auxiliary output 30 Vdc
- 01501.2 – Power supply unit with bus output of 30 Vdc 640 mA, auxiliary output 30 Vdc

Characteristics

Model	120 V~	240 V~
01500.2	185 mA	120 mA
01501.2	360 mA	220 mA

Product Usage Instructions

Operation

1. Connect the device to the power source.
2. Once connected, the LED indicator will illuminate in green, indicating that the device is functioning correctly.

Main Applications

The power supply unit is primarily used to provide power to:

- Lines with up to 32 bus devices for model 01500.2
- Lines with up to 64 bus devices for model 01501.2

Note: The power supply unit can be used in various settings such as office buildings, shopping malls, and residential complexes.

Additional Functionality:

- The power supply unit can also be used to power a main line and a secondary line simultaneously by utilizing the auxiliary voltage of 30 Vdc in combination with a power coil.

Resetting the Power Supply

1. To reset the power supply, remove the connection terminals from the bus.
2. After approximately 20 seconds, reinsert the connection terminals into their original positions.
3. The bus line will reconnect to the power supply, and the bus devices will return to their default initial conditions.

Installation Guidelines

- Ensure compliance with the CEI 64-8 (ed. 2012) standard, specifically section 411.1.2.2.
- For safety purposes, securely mount the device on the wall as instructed in the installation manual.
- Prior to the power supply unit, install a readily accessible bipolar switch with a minimum contact separation of 3 mm.
- Compliance with the BT Directive, EMC Directive, and EN 62368-1, EN 50491 standards is required.

01500.2: Power supply unit with bus output of 30 Vd.c. 320 mA, auxiliary output 30 Vd.c., power supply 120-240 V~ 50/60 Hz, with decoupling coil, KNX standard, installation on DIN rail (60715 TH35), occupies 4 modules of 17.5 mm.

01501.2: Power supply unit with bus output of 30 Vd.c. 640 mA, auxiliary output 30 Vd.c. ES1, power supply 120-240 V~ 50/60 Hz, with decoupling coil, KNX standard, installation on DIN rail (60715 TH35), occupies 4 modules of 17.5 mm.

Power supply unit for bus systems equipped with decoupling coil. Each bus line needs at least one power unit; if the voltage on the bus is less than 21 V it is necessary to install a second power unit at a distance of at least 200 m from the first one. If there are 30 or more bus devices installed near to each other (for instance in 10-15 m of cable or in the same electric panel), it is advisable to install the power unit near to these devices. The maximum distance between the power unit and the furthest device must not exceed 350 m. The power unit is moreover equipped with an auxiliary output that supplies a voltage of 30 V d.c. that can be used to connect an additional

bus line via a decoupling coil. The power unit is self-protected against short circuits (thanks to a voltage and current regulator) and ensures a power supply even in the event of brief mains failures provided they do not exceed 200 ms. It is recommended to always have a safety switch for the electric power supply circuit of the device 01500.2-01501.2.

CHARACTERISTICS

- **Supply voltage:** 120-240 V~ 50/60 Hz.
- **KNX BUS output voltage:** 30 V d.c. (ES1) with decoupling coil.
- **AUX output voltage:** 30 V d.c. (ES1).
- **Operating temperature:** -5 °C – +45 °C (inside).
- **Protection rating:** IP40.
- 4 modules of 17.5 mm.

01500.2

- Consumption:
  - **120 V~:** 185 mA
  - **240 V~:** 120 mA
- **Dissipated power:** 3 W
- **Total max output current IMAX:** 320 mA (IKNX+ IAUX)
- **Short-circuit current:** 0,8 A

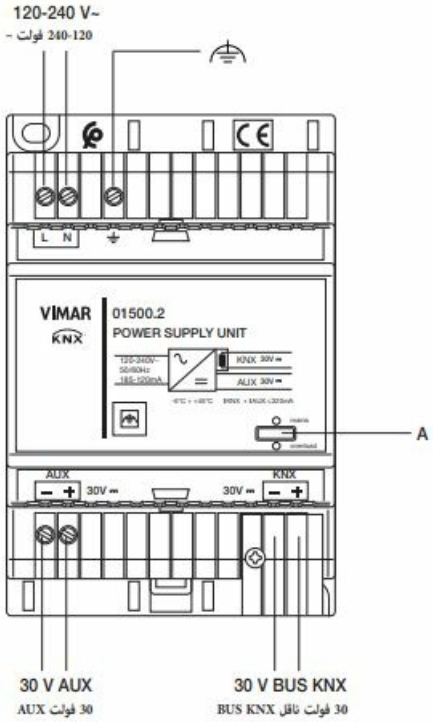
01501.2

- Consumption:
  - 120 V~: 360 mA
  - **240 V~:** 220 mA
- **Dissipated power:** 4,5 W
- **Total max output current IMAX:** 640 mA (IKNX+ IAUX)
- **Short-circuit current:** 1,4 A

FRONT VIEW

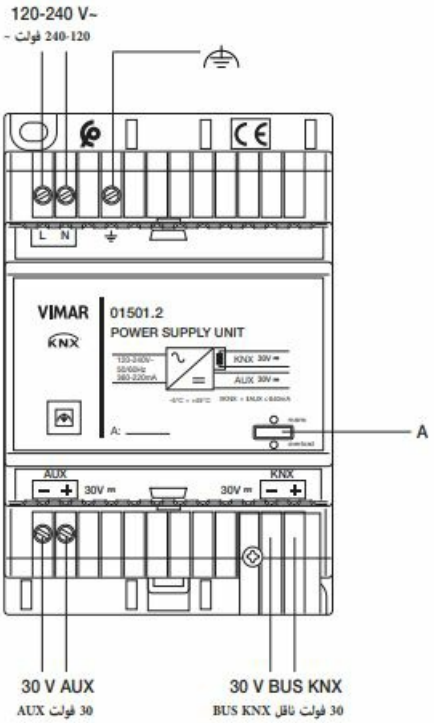
01500.2

01500.2



01501.2

01501.2



- **Green LED:** normal operation;
- **Red LED:** overload

OPERATION

Power the device after connecting it; the led lights green color and this indicates that the device is working correctly.

The power unit is mainly used to supply power to:

- lines with up to 32 bus devices for art. 01500.2 and to 64 bus devices for art. 01501.2 (e.g., office blocks, shopping malls, blocks of flats);
- lines with a limited number of devices and simultaneous power supply of a main line and a secondary line (using the auxiliary voltage of 30 V d.c. in combination with a power supply coil).

To “Reset” the power unit, remove the bus connection terminals and, after approximately 20 seconds, put them back in place. If the line is disconnected for a long time, it is necessary to disconnect the bus connection terminals of the power unit.

SIGNAL LED

The power supply has a two-color LED green/red displays the voltage, overload and short circuit.
In the device the values of the overload current and short-circuit is applied to the total current IMAX= IKNX+ IAUX.

- Green Led = Normal operation (I≤IMAX)
- Red Led = Overload (I>IMAX)
- Led OFF = Absence of mains

INSTALLATION RULES

Installation should be carried out by qualified personnel in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.

- There must be no dripping or splashes of water on the appliance.
- Install the device at a height of no more than 2 m.
- An SPD (surge protection device) must be installed upstream from the device, in order to reduce the overvoltage category from III to II.
- The power supply units constitute a SELV source in observance of the requirements set out in article 411.1.2.2 of the CEI 64-8 standard (ed. 2012).

WARNING: To prevent injury, the appliance must be secured to the wall as described in the installation instructions. Above the power supply there must be a bipolar circuit breaker that is easily accessible with a contact gap o at least 3 mm.

REGULATORY COMPLIANCE

- LV directive. EMC directive. Standards EN 62368-1, EN 50491.
- REACH (EU) Regulation no. 1907/2006 – Art.33. The product may contain traces of lead.

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.

- Viale Vicenza, 14
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Documents / Resources

	**VIMAR 01500.2 WELL-CONTACT PLUS Standard Automation System** [pdf] Instruction Manual 01500.2, 01501.2, 01500.2 WELL-CONTACT PLUS Standard Automation System, WELL-CONTACT PLUS Standard Automation System, Standard Automation System, Automation System