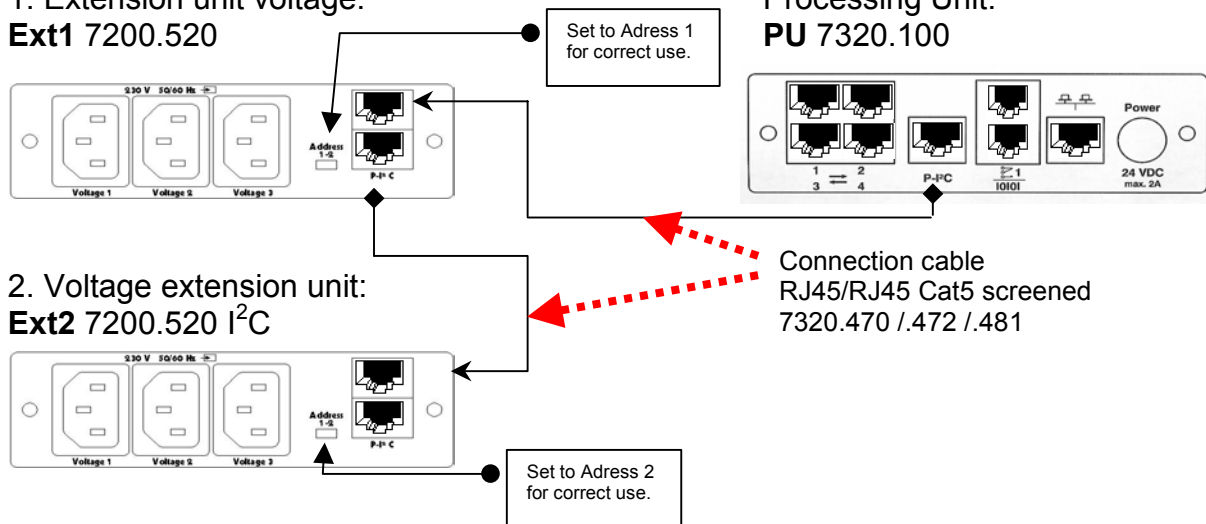


Voltage extension unit

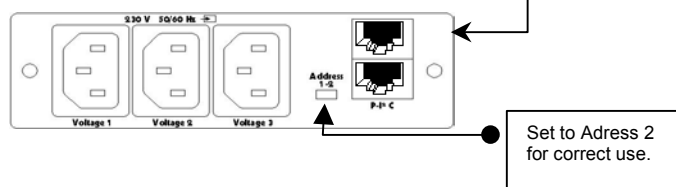
Note: Actual version: WWW.CMC-TC.COM

For reasons of clarity of the presentation, these operating instructions do not contain all information details and also cannot cover every possible case of installation, operation or repair. Technical specifications are subject to change without notice. In case of doubt, the German text prevails.

1. Extension unit voltage: Ext1 7200.520



2. Voltage extension unit: Ext2 7200.520 I²C



General conditions of use:

- The extension unit must only be used together with the Rittal CMC- system.
- The operating instructions / safety instructions of the Processing Unit (7320.100). The Extension unit is described in detail in these instructions. The conditions for use, safety instructions and warranty terms are also described there and must be observed.
- Connection cables 7320.470, 7320.472 or 7320.481 are required. Specified Cat5 cables can be used for special applications. These are described in detail in the operating instructions of the Processing Unit (7320.100). Please contact our central office.
- It is absolutely necessary that these cables are installed separately from mains power cables.
- The use of the extension unit is limited to the specified ambient conditions.
- It is forbidden to open the extension unit. They do not contain parts requiring maintenance.

Caution ! The IEC connection supplies very high voltage to the unit. Danger when opening the system.

- Before making the connection, check to be sure that the sensor can be used with the PU, measuring point.
- It is forbidden to render safety equipment ineffective.

Caution! A protective conductor must be connected when the unit is used with the measuring supply. Do not use without protective conductor.

- Direct contact of the extension unit with water (e.g. dew), oil sludge or any aggressive substance is forbidden.
- Use in locations with flammable gas or vapor is forbidden. Protection from water, dust, etc. must be ensured by installation in an enclosure or housing.
- The CMC-TC system must not be live with voltage when the extension unit is connected to the PU or the measuring point.

Caution ! Always pull the main plug because otherwise the measuring point has very high voltage when connected.

Danger !

- The sensor unit must be installed properly as described in the separate installation instructions..
- The accuracy of analog inputs can suffer in an environment with electromagnetic disturbance.
- In environments with increased electromagnetic noise (e.g., industrial estates) the EMC can be improved by additional measures. Please consult our central office.
- The ambient conditions/safety instructions in the instruction manual must be observed.
- Damage due to non-compliance with these instructions / ambient of the Processing Unit 7320.100 is not covered by our warranty. Rittal is not responsible for any consequential damage!

- Injury to persons or damage to property which is due to improper handling or non-compliance with safety instructions is outside Rittal's responsibility. Any such case is not covered by warranty!

Description:

The extension unit can be connected to Processing Unit 7320.100 (max. 2 units). A voltage extension unit performs the voltage measuring function. Three IEC jacks are available to monitor voltage 100 - 230V AC. The extension unit is automatically identified by the Processing Unit. The extension unit does not need an extra power supply.

The extension unit can be used if the following components are available::

- Processing Unit (7320.100) with power supply (e.g., 7320.425), country-specific connection cable, programming cable
- Connection cable (e.g., 7320.470, 7320.472 or 7320.481)
- Feeding of voltage inputs 7200.210-215 (up to 3 inputs)

Description of status LED „I“:

- | | |
|-----------------|---|
| Off: | No operating voltage is applied. |
| Green: | Operating voltage is applied, I ² C Communication is searched for. |
| Green flashing: | Operating voltage is applied, I ² C Communication is OK. |
| Red flashing: | No I ² C Communication was found – fault – |
| Red: | The voltage limit is exceeded – alarm – |

Description of three voltage Status LED's:

- | | |
|-----------|---|
| Off: | Voltage is below measurable threshold. |
| On: | Voltage in limit. |
| Flashing: | Voltage out of limit – alarm – (Only at PU II). |

Control-Key

By this C-Key the extension unit is bound to PU II. To activate this function, press the key for at least 3 sec. (Function is only possible with PU II.)

Technical data:

3 inputs for voltage control

Rated voltage 24 V DC with supply connection of Processing Unit

Measuring points input: 100-230 V AC 50/60Hz

Deviation / environment-condition:

Measurement range deviation: +/- 7% from the final value

Use / area temperature range: +5°C to +45°C

Use / area humidity range: 10..90% r.F. not condense

Stock temperature: -20 to +75°C

Protection category: IP 40

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