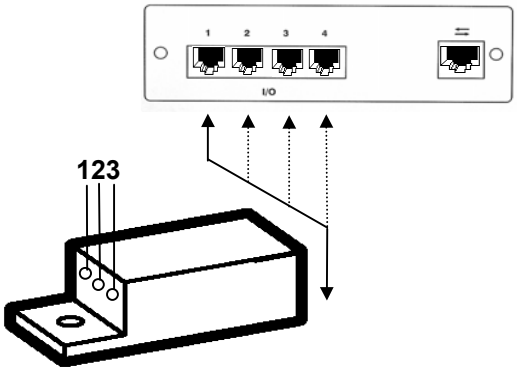
Drawing number: A 28901 02 IT 7 4

# Sensor Input Unit 4-20mA DK 7320.520

## Note:

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.

Sensor Unit:
**I/O Unit** 7320.210




**Pin configuration for 4-20mA input:**
Pin**1**: Sensor analog current signal
Pin**2**: Sensor Gnd (optional)
Pin**3**: +24V of the sensor, 24V +/-6% max. 50mA when sensor is supplied

## Description:

The sensor inputs can be connected to the I/O Unit 7320.210 (max. 4 inputs). The function of the sensor input units is to monitor an analog value. The sensor is assigned a code by which it is automatically identified and set by the CMC TC system. Sensors with 4-20mA signal output and 24V DC operating voltage can be linked. The sensor can be used if the following components are available:
- Processing Unit (7320.100) with mains adapter ( e.g., 7320.425 ), national-standard connecting cable, programming cable.
- Sensor unit ( 7320.210 or 7320.230 ), Connecting Cable (RJ45, Cat5).

## General conditions of use:

- The sensor input unit must only be used together with the Rittal CMC-TC system.
- The operating instructions / safety instructions of the Processing Unit and of the above sensor units apply.
- The maximum cable length between the sensor unit and the sensor input unit is 2m. The connection must be made with the connecting cable of the supply. Extension cables 7200.450 for special applications are available after consultation with our central office.
- It is absolutely necessary that these cables are installed separately from mains power cables.
- The use of the sensor inputs is exclusively limited to the specified ambient conditions.
- It is forbidden to open the sensor enclosures. They do not contain parts requiring maintenance.
- Before making the connection, check to be sure that the sensor input unit can be used with the device / module.
- It is forbidden to render safety equipment ineffective.
- Direct contact of the sensor input unit with water (e.g., dew), oil sludge or any aggressive substances is forbidden.
- Use in locations with flammable gas or vapor is forbidden. Protection from water, dust, etc. must be ensured by installation in a enclosure or rack.
- The CMC-TC system must not be live with voltage when the sensor input is being connected to the sensor unit.
- The sensor must be installed properly as described in the separate installation instructions.
- The accuracy of analog inputs can suffer in an environment with electromagnetic disturbance.
- At pin3, 24V DC, +/-6%, max. 50mA (non-fused) is provided to supply the external sensor. If higher current is needed, this must be supplied from an external power source.

## Technical data:

Analog input 4 – 20mA at 24 V DC
Sensors without Gnd can also be used
Connection: RJ12 socket 6-pole
Connecting cable: length 2m, RJ12 plug 6/6 both ends
Temperature range: +5°C to +45°C
Enclosure: IP 40

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