

# Sensor Unit Access Unit

**DK 7320.220**

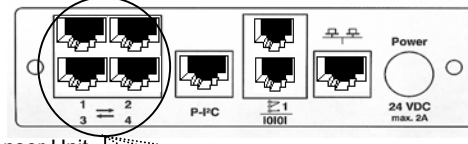
## Note:

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: Access Unit 7320.220



### Processing Unit: PU 7320.100



Connection cable Sensor Unit  
RJ45/RJ45 Cat5 shielded  
7320.470 / .472 / .481

Additional Sensor Units

## Description:

The sensor units can be connected to the Processing Unit 7320.100 (max. 4 units). One Access Sensor Unit controls two door systems. The interlocking systems / handle, access sensors and readers from the Rittal accessory products range can be connected. The sensors, are assigned a code by which they are automatically identified and set by the CMC TC system. The sensors can be used if the following components are available:

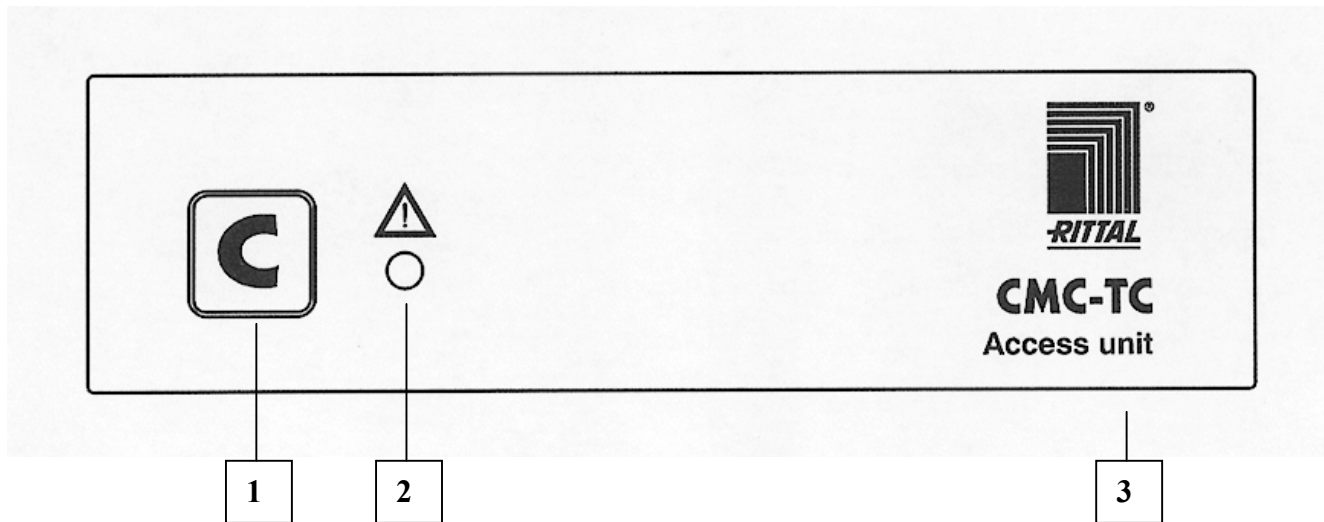
- Processing Unit (7320.100) with mains adapter ( e.g., 7320.425 ), national-standard connecting cable, programming cable.
- Connecting cable (e.g., 7320.470, 7320.472 or 7320.481)

## Conditions for use / safety instructions:

- The sensor unit must only be used together with the Rittal CMC-TC system.
- The operating instructions / safety instructions of the Processing Unit (7320.100) apply, where the sensor unit is described in detail. 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.
- Use only the sensor connection cables delivered with the sensors / actors for connection to the sensor unit.
- It is absolutely necessary that these cables are installed separately from mains power cables.
- The use of the sensor units 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 can be used with the PU, sensor or actor.
- It is forbidden to render safety equipment ineffective.
- Direct contact of the sensor 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 unit is connected to the PU, sensor or actor.
- 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. Please contact our central office.
- The ambient conditions / safety instructions in the instruction manual must be observed.
- Damage due to non-compliance with these instructions / ambient conditions and the instructions for 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 of the Access Sensor Unit 7320.220

## Front



The **Access Sensor Unit** can control two doors separately.

Optionally, the following functions can be performed by one Access Unit:

- To monitor the front or rear door (separately) of a rack
- To monitor two front doors of two racks
- To monitor two room doors

Access can be allowed optionally by remote function or by reader ( chip card reader, magnetic card reader, number code lock ).



### 1 Control key

The C key can be used to check and edit the configuration of the sensors and actors of this unit after setting up or changing the installation. The C key must be pressed at least for 3 seconds.



### 2 Alarm LED

Green:	No fault detected
Orange:	Warning
Blinking red/yellow/green:	'Configuration change' of the sensor unit
Red:	Alarm

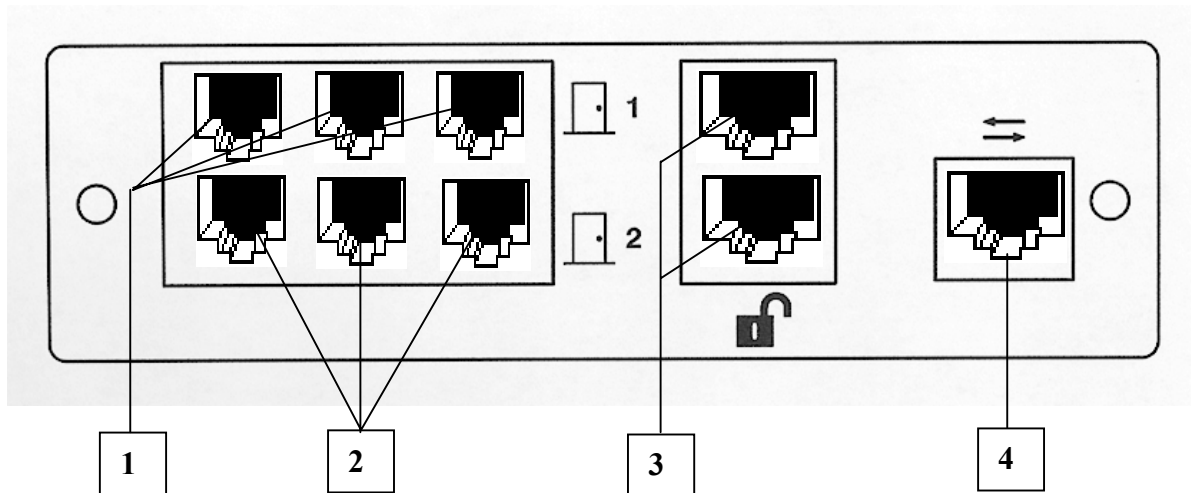
### 3 Mounting bracket

The sensor unit can be integrated in the 1 U erection unit 7320.440 using the bottom mount or it can be mounted to the system chassis in the rack. For the latter option, the single erection unit 7320.450 can be used.



# Description of the Access Sensor Unit 7320.220

## Rear



### 1 RJ12 sensors / actors for door system 1

Basically, all 3x RJ12 sockets are the same and can be used for any sensor / actor type specified.

**The sensor unit is equipped with an automatic electronic ID circuit which the system uses to set up the exactly this sensor/actor type.**

Press the C key at the front of the unit to start the initialisation procedure.

For door control, the following sensors / actors must be connected to the Access Unit:

#### 1.1 Pin configuration must exist:

( max. 1 actor of the following alternatives can be connected )

7320.700	Electromagnetic Ergoform-S handle for FR/PS/TC
7320.710	Electromagnetic Ergoform-S handle for QR
7320.720	Electromagnetic Comfort handle for TS8
7320.730	Universal lock
7320.740	Relay output for customer-system, access applications

#### 1.2 Pin configuration must exist: ( max. 1 sensor can be connected )

7320.530	Access sensor
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#### 1.3 Pin configuration is optional

7320.580	Connection of open, digital input for customer-system access signals ( Example: key-operated switch, relay output from external access control systems )
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### 2 RJ12 sensors / actors for door system 2

Same as described for door system 1.



### 3 RJ45 sockets for readers ( P-I<sup>2</sup>C bus )

The upper socket is for door system 1.

The lower socket is for door system 2.

The systems must only be plugged if the complete CMC-TC system is electrically isolated.

Optionally the first reader can control both doors at the same time.

The following readers are available:

7320.750	Chip card reader
7320.760	Magnetic card reader
7320.770	Number code lock



### 4 Input for Processing Unit RJ45

This input connects the sensor unit to the PU. The sensor units define the function of the PU. The sensor units are connected to the PU with cables (e.g., 7320.470, 7320.472 or 7320.481). The connecting cable transmits information and power to the sensor unit.

**Technical data:**

Control of 2 door systems  
Automatic identification of lock system / handles and access sensors  
Supply voltage 24 V DC with supply connection from the Processing Unit  
Shock 1g  
Temperature range: +5°C to +45°C  
Enclosure: IP 40

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