



RCP115

Remote control panel (15.6 inch)



Table of contents

1	General information.....	4
1.1	How to use the manual.....	4
1.2	Indication of important instructions and information.....	4
1.3	Service and Support.....	4
1.4	Training courses and seminars.....	4
1.5	Delivery conditions.....	4
1.6	Inspection, transport and storage.....	5
1.7	Warranty and liability.....	5
1.8	Disposal of Bender devices.....	5
1.9	Safety.....	6
2	Product description.....	7
2.1	Intended use.....	7
2.2	Functions and properties.....	7
2.3	Technical features.....	7
2.4	Decentralised system architecture.....	8
2.5	Centralised system architecture.....	8
3	Dimensions, Mounting, Connection.....	9
3.1	Dimensions.....	9
3.2	Mounting.....	9
3.2.1	Orientation.....	9
3.2.2	Glass Offset.....	10
3.2.3	Switch cabinet door installation.....	10
3.2.4	Flush mounting.....	11
3.2.5	Surface mounting.....	13
3.3	Connection.....	14
3.3.1	Power supply.....	14
3.3.2	Interfaces.....	15
4	Commissioning.....	16
4.1	Procedure.....	16
4.2	Status LED.....	16
4.3	Login directly on the RCP115.....	16
4.4	Login via a browser.....	16
5	Operation.....	17
5.1	Configuration.....	17

5.1.1	Network.....	17
5.1.2	Device Information.....	17
5.1.3	NTP.....	17
5.1.4	Browser.....	17
5.1.5	Display.....	18
5.1.6	Touch.....	18
5.1.7	Firmware Update.....	18
5.1.8	User management.....	19
5.1.9	Utility functions.....	19
5.2	Host and configuration application.....	19
5.3	Panel / Device.....	20
5.4	Log out.....	20
6	Maintenance.....	21
6.1	Cleaning.....	21
7	Technical data.....	22
7.1	Tabular data.....	22
7.2	Order details.....	24
7.3	Conformity.....	24
7.4	Change history Documentation.....	24

1 General information

1.1 How to use the manual



ADVICE

This manual is intended for qualified personnel working in electrical engineering and electronics! Part of the device documentation in addition to this manual is the enclosed supplement "Safety instructions for Bender products".



ADVICE

Read the operating manual before mounting, connecting and commissioning the device. Keep the manual within easy reach for future reference.

1.2 Indication of important instructions and information



DANGER

Indicates a high risk of danger that will result in death or serious injury if not avoided.



WARNING

Indicates a medium risk of danger that can lead to death or serious injury if not avoided.



CAUTION

Indicates a low-level risk that can result in minor or moderate injury or damage to property if not avoided.



ADVICE

Indicates important facts that do not result in immediate injuries. They can lead to malfunctions if the device is handled incorrectly.



Information can help to optimise the use of the product.

1.3 Service and Support

Information and contact details about customer service, repair service or field service for Bender devices are available on the following website: <https://www.bender.de/en/service-support>.

1.4 Training courses and seminars

Regular face-to-face or online seminars for customers and other interested parties:

<https://www.bender.de/en/know-how/seminars>

1.5 Delivery conditions

The conditions of sale and delivery set out by Bender GmbH & Co. KG apply. These can be obtained in printed or electronic format.

1.6 Inspection, transport and storage

Check the shipping and device packaging for transport damage and scope of delivery. In the event of complaints, the company must be notified immediately. Please use the contact form at the following address: <https://www.bender.de/en/service-support/take-back-of-old-devices/>.

When storing the devices, observe the information under Environment / EMC in the technical data.

1.7 Warranty and liability

Warranty and liability claims for personal injury and property damage are excluded in the case of:

- improper use of the device
- incorrect mounting, commissioning, operation and maintenance of the device
- Failure to observe the instructions in this operating manual regarding transport, commissioning, operation and maintenance of the device
- unauthorised changes to the device made by parties other than the manufacturer
- non-observance of technical data
- Repairs carried out incorrectly
- the use of accessories or spare parts that are not provided, approved or recommended by the manufacturer
- Catastrophes caused by external influences and force majeure
- Mounting and installation with device combinations not approved or recommended by the manufacturer

This operating manual and the enclosed safety instructions must be observed by all persons working with the device. Furthermore, the rules and regulations that apply for accident prevention at the place of use must be observed.

1.8 Disposal of Bender devices

Abide by the national regulations and laws governing the disposal of this device.



Bender GmbH & Co. KG is registered in the waste from electrical and electronic equipment (WEEE) register under the WEEE number: DE 43 124 402. For more information on the disposal of Bender devices, refer to <https://www.bender.de/en/service-support/take-back-of-old-devices/>

1.9 Safety

If the device is used outside the Federal Republic of Germany, the applicable local standards and regulations must be complied with. In Europe, the European standard EN 50110 applies.



DANGER

Risk of fatal injury due to electric shock!

Touching live parts of the system carries the risk of:

- *Electrocution due to electric shock*
- *Damage to the electrical installation*
- *Destruction of the device*

Before installing the device and before working on its connections, make sure that the installation is de-energised.

Observe the rules for working on electrical systems.

2 Product description

2.1 Intended use

The RCP115 is a 15.6-inch touch display with an integrated processor that can be operated independently. It is ideal for industrial applications and offers intuitive visualisation of system data.

In order to meet the requirements of the standards, customised parameter settings must be made on the equipment in order to adapt it to local equipment and operating conditions. Please heed the limits of the range of application indicated in the technical data.

Do not make any unauthorised changes to the device. Only use spare parts and optional accessories sold or recommended by the manufacturer.

Only use the manufacturer's original software. Updates may only be carried out by Bender Service or by appropriately trained personnel. Modifications or improper updates can lead to malfunctions and safety risks.

Cybersecurity recommendation: Do not allow settings to be changed via any remote interface.

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Intended use also includes

- the observation of all information in the manual and
- compliance with the test intervals in accordance with the relevant standards and operating rules.

Any other use than that described in this manual is regarded as improper.

2.2 Functions and properties

The RCP115 can be connected to various web servers (HTML5). For this reason, the ARM-based HMI can be used flexibly with various Devices and Systems, regardless of the manufacturer.

- Show: Display of a web browser (comparable with Chrome, Edge or Firefox) for accessing web-based content
- Network: Ethernet connection for accessing websites and Visualisations
- Visualisation: Web-based display of system data - ideal for technical rooms, production areas or subdistributions
- Performance: Fast visualisation thanks to optimised system performance
- Integration: Simple system integration for industrial applications (switch cabinet door, flush and surface mounting, front panel and cavity wall installation)
- Compatibility: Can be used with the COMTRAXX® series for condition monitoring systems
- Display of web-based third-party systems

2.3 Technical features

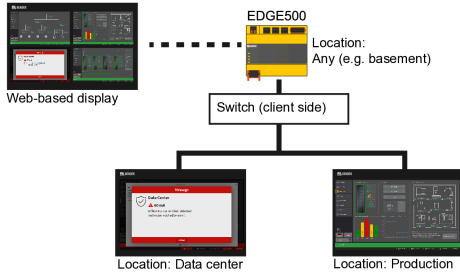
- Display: Capacitive touch screen, can be used in portrait and landscape format
- Mounting: Suitable for different installation situations, housing available as an accessory
- Customised panel construction: Reliable functions even behind glass or film surfaces

2.4 Decentralised system architecture

The RCP115 serves as a display unit for visualisations at various locations.

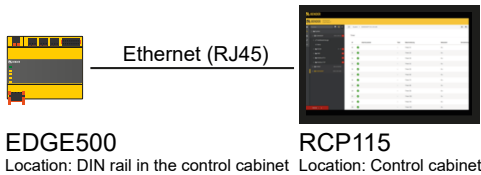
The processing unit does not have to be installed directly behind the screen, but can be installed centrally in a control cabinet in the basement. The RCP115 accesses the data remotely and displays the visualisation at the installation location. This allows a flexible system design to be realised.

A condition monitor (e.g. EDGE500) can be used as a computing unit. Several RCP115 can be connected to a Condition Monitor so that the visualisation can be displayed in different locations at the same time.



2.5 Centralised system architecture

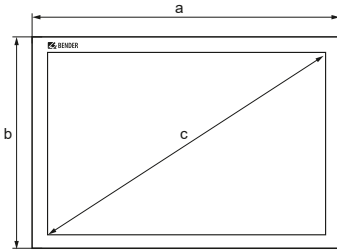
The RCP115 can also be connected directly to the EDGE500 via a peer-to-peer (P2P) connection. This allows the visualisation to be displayed directly on the RCP115 without the need for additional company IT resources for routing etc.



3 Dimensions, Mounting, Connection

3.1 Dimensions

Dimensional drawing



Glass thickness: 3 mm

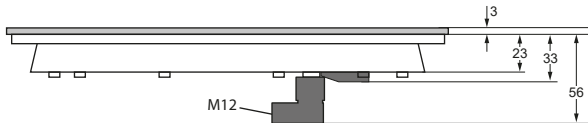
Device dimensions (mm) ±1

	a	b	c
RCP115	425.2	274.6	15.6 inch

Housing installation dimensions (mm) ±1

	a	b	Required installation depth
Door	393	242	56
Flush-mounted	398	250	98
Surface-mounted	431.5	280.5	---

Side view



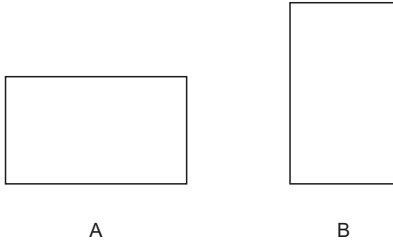
3.2 Mounting

3.2.1 Orientation

General

The installation of the RCP115 must be selected so that the maximum operating temperature range is not exceeded. Sufficient air circulation must be ensured. The RCP115 must not be exposed to any direct light sources such as sunlight.

The RCP115 can be installed in landscape format as well as portrait format.



- A Landscape format
- B Portrait format

You configure the corresponding settings in the menu under "Display Settings > Flip Mode". Please note that the visualisation must be suitable for the selected installation direction and adapted accordingly at all times to ensure optimum display and operation.

3.2.2 Glass Offset

The RCP115 offers the option of mounting a customised glass or film in front of the display, for example with your own logo or a design according to your organisation's specifications.

Glass up to 3 mm thick can be used.

To do this, configure the sensitivity to "high" in the "Touch" menu. The sensitivity of the capacitive touch screen is now automatically adjusted to ensure optimum operation despite an additional layer of glass or film.

Bender is also happy to offer you the additional service of fitting a customised glass in front of the display.

Further Information

Menu item Touch: "Touch", page 18

3.2.3 Switch cabinet door installation

The RCP115 can be installed directly into a control cabinet door with the clamping plates (included in the scope of delivery).

Switch cabinet door thickness: 1...3.5 mm

Size of cut-out see "Dimensions"

3.2.4 Flush mounting

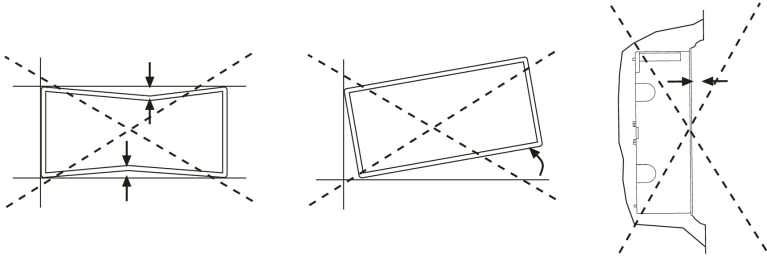
The flush-mounted enclosures available as accessories are suitable for installation in cavity walls, drywalls and solid walls. The wall surface must be **even**.



CAUTION

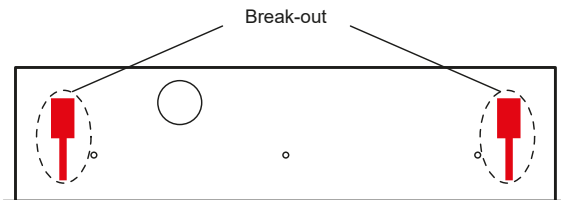
Malfunction due to false installation

The enclosure sides must be at right angles to each other and must not warp during installation!



Cavity wall installation

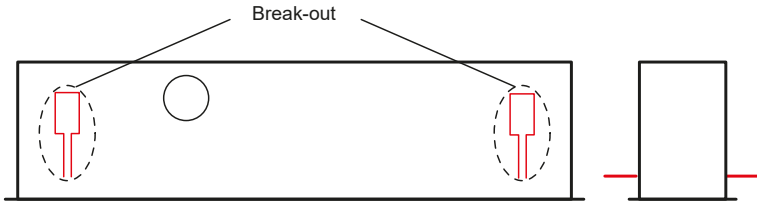
1. Lever out the predetermined break-outs on the flush-mounted enclosure with a screwdriver and remove it.
2. Insert the supplied cavity wall clamp with the screw through the opening and tighten it.



3. Ensure that the enclosure is seated flat and without deformation.

Plastering into solid walls

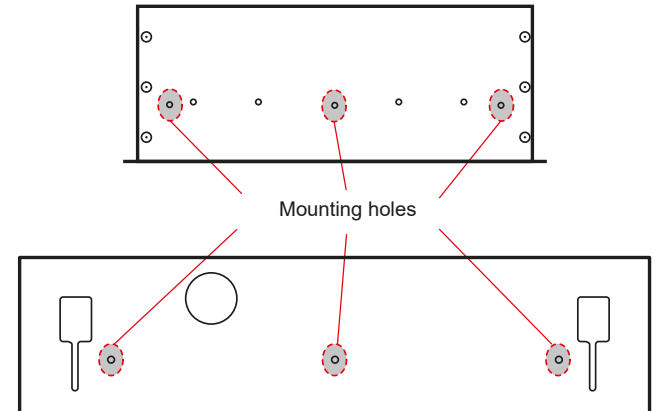
1. Carefully cut out the predetermined break-outs with a screwdriver as shown. **The narrow bar at the bottom must remain.**



2. Bend the metal outwards so that it acts as a barb in the plaster.
3. Insert the enclosure and plaster the surface.
4. Ensure that the enclosure sits flat and without deformation.

Installation frame mounting

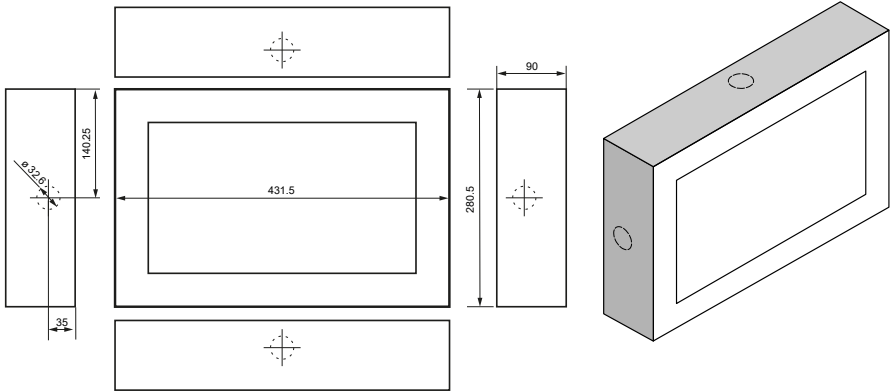
1. There are three mounting holes on all pages of the flush-mounted enclosure for mounting in the installation frame.



2. Use screws with pan head and suitable washers.
3. Ensure that the enclosure is seated flat and without deformation.

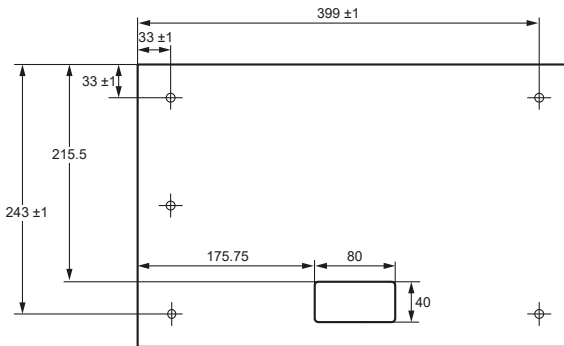
3.2.5 Surface mounting

Surface mounting must be carried out with a Bender surface-mounted enclosure.



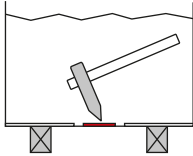
Dimensional drawing of surface-mounted enclosure

1. Ensure that the wall is smooth and level.
2. The enclosure must be firmly screwed on at four points.



Drilling template for surface-mounted enclosure

3. If the power supply or the network cable is to be fed into the **side** of the enclosure, the corresponding openings still need to be created. A cable aperture is ready on each side of the enclosure. At this point, place 2 pieces of wood or something similar under the surface-mounted enclosure and knock out the corresponding spot with a hammer. Deburr the opening.



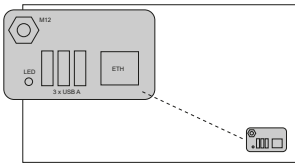
Opening the prepared cable aperture in the surface-mounted enclosure

Insert the silicone cover supplied into the opening and feed the cable through.

4. Ensure that the enclosure is seated flat and without deformation.

3.3 Connection

The connections are located on the back of the RCP115



Element	Explanation
M12	Socket for supplied connection cable (M12)
LED	Status LED
3 x USB A	3 USB A ports (Mouse/keyboard connection)
ETH	Ethernet socket

Further Information

"Status LED", page 16

3.3.1 Power supply

Only the supplied M12 angled plug may be used, as otherwise neither sufficient strain relief nor the intended installation depth in the surface-mounted and flush-mounted enclosure can be guaranteed.

Suitable strain relief must be provided for all installation variants. To do this, the lines must either be fastened with cable ties to the available strain reliefs or additional strain reliefs must be fitted.

Coding M12 angled plug

PIN on the RCP115	Wire colour		Connection
1	Brown	BN	DC 24 V ($\pm 15\%$)
2	White	WH	N/C
3	Black	BK	N/C
4	Blue	BU	GND / 0 V
5	Green / Yellow	GN / YE	FE (functional earth)

3.3.2 Interfaces

Ethernet (RJ45)

The 1Gbit/s Ethernet interface is designed as an RJ45 socket.

Link LED	Lights up orange when link is active
Active LED	Flashes green for data traffic

USB

The USB 2.0 host interface is designed as a 4-pin Type A socket. The USB cable must comply with the USB 2.0 specification.

The USB interfaces are suitable for the connection of mouse and keyboard.

4 Commissioning

4.1 Procedure

1. Insert the M12 plug and screw it in place
2. Plug in the network connector
3. Allow the device to start up

The boot process starts immediately after the RCP115 is connected to the power supply. Once the boot process is complete, a login screen appears on the display.

The RCP115 can be operated directly via the touch screen or remotely via a browser.

4.2 Status LED

The status LED shows the state of the RCP115.

LED	Meaning
Red > green > blue > white	Boot process
Flashing green LED	Application started
Flashing blue LED	Application started, USB memory recognised

4.3 Login directly on the RCP115

Login to the user interface. Local operation directly on the RCP115 can also be carried out without an existing network connection.

Factory setting

User name: admin

Password: admin



ADVICE

For security reasons, please change the password to a personal password immediately after the first login.

4.4 Login via a browser

Open a web browser on the remote PC.



DHCP is enabled by default on RCP115. Obtain the address from the available DHCP Server.

Enter the IP address of the RCP115 (e.g. 192.168.1.120). The login screen of RCP115 appears to login.

Factory setting

User name: admin

Password: admin



ADVICE

For security reasons, please change the password to a personal password immediately after the first login.

5 Operation

5.1 Configuration

5.1.1 Network

The Network settings allow you to make the necessary Configurations for the required network.

DHCP is enabled as the default configuration for RCP115. None of the other settings can be changed in this configuration. The settings shown are the values assigned by the DHCP server. These are for information purposes only and cannot be changed.

At changing the network address of the RCP115, the "DHCP" Function must be disabled.

Configuring the desired values for

- IPv4 Address
- Gateway
- Subnet mask
- Domain Name System (DNS)

Save the settings with "SAVE".

5.1.2 Device Information

Application-specific settings can be configured on the RCP115 under Device Information. These are mainly used for better identification in larger installations.

Assigning unique settings for the RCP115

- System Name
- Description / Channel description
- Contact Name / Contact person
- Location / Installation location

Save the settings with "SAVE".

5.1.3 NTP

If NTP is **disabled**, the time and date can be set manually.

If NTP is **enabled**, the Network Time Protocol (NTP) synchronises the time on devices within the network.

Setting options

- Enable the NTP protocol
- Specify the IP address of the NTP server

Save the settings with "SAVE".

5.1.4 Browser

The browser settings determine which webpage or visualisation is loaded and how it is displayed (host). Up to four webpage addresses can be stored. At least one valid address must be created.

Enable the desired default view via the "Active Host" drop-down menu.

One of the two Options can be selected for "Browser Mode":

- Normal: Internal web browser starts in normal Mode (address bar is displayed)
- Kiosk: Internal web browser starts in full screen mode

Save the settings with "SAVE".

5.1.5 Display

This Menu allows you to configure the display parameters.

Setting options

- Brightness: Brightness of the display, value range 10-100%
- Timer: If there is none on-site operation for the specified Timerange, the backlight is reduced to 10% of the brightness. This ensures the service life of the backlight and system errors are still displayed.
The backlight is enabled again by touching the touch surface. (Time basis: seconds).
- Flip mode: Rotation of the display in 90° steps, flexible for all installation situations
- Screensaver: To prevent the "image-sticking"-effect, a line of pixels scrolls across the screen when the screensaver is active. The screensaver is enabled after 20 minutes.
Value range enabled/not enabled
Factory setting: Not enabled

Save the Settings with "SAVE".

5.1.6 Touch

This menu allows you to configure the touch parameters.

Setting options

- low: For direct operation without gloves
- high: For usages of an additional glass in front of the display or for usage with gloves

Save the settings with "SAVE".

5.1.7 Firmware Update

This menu enables the device software to be updated.



ADVICE

The firmware should be inspected at certain intervals and updated to the latest version. The latest firmware can always be downloaded from the website www.bender.de.

Proceed as follows:

1. Loading the new firmware onto a USB stick
2. Disconnect the USB Connection PC - USB stick using the "Security Eject" function
3. Insert the USB stick into one of the 3 USB ports on the back of the RCP115. The system automatically searches for the update file. A valid firmware update file is displayed on the web interface.
4. Select "Apply Update"
The firmware update starts and a progress bar including further status messages appears.

Alternatively, the update can also be carried out by uploading it directly via the host application opened in the browser. The Software update can be installed there.

5.1.8 User management

Setting an individual password

Default login: admin

Password: admin

For your security, you should change the password during commissioning.

Service Account

Factory setting: Service Account = On

The service account enables access to the system settings using a one-time password. This allows Bender Service to provide support during commissioning.

If a set administrator password is forgotten, Bender Service can create a temporary password for Reset password.

The service account must be enabled for both options.

If the service account is disabled, Bender Service cannot help with the reset. In this case, the RCP115 must be sent in (subject to a charge).

5.1.9 Utility functions

Here you can configure

- Hardware reset (reboot)
- Switch off the RCP115 (shutdown)
- Reset to Factory settings (Factory reset)

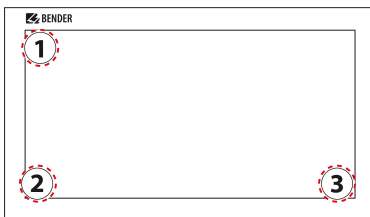
5.2 Host and configuration application

As long as none of the active hosts ("Active Host") is selected, the RCP115 starts the internal configuration application after every reboot.

However, as soon as an active host is selected, the RCP115 attempts to establish a connection with the "Active Host" after each reboot.

To switch to the internal configuration menu, press the top left corner (1) on the touch display for 10 seconds. With the same touch, you can switch off the Login display and into the visualisation.

You can switch between the 1...4 configured hosts with the touchpoints (2) and (3).



Touchpoint

- | | |
|--------------------|---|
| 1
[10 s] | Switch from Login to Visualisation
Switch to internal configuration menu |
| 2
[5 s] | Switch to other host to the left |
| 3
[5 s] | Switch to other host to the right |

Touchpoints Display

5.3 Panel / Device

Info

Display of detailed Information about the device RCP115

Specification	Note
SystemName	User setting under "Device Information"
Description	
ContactName	
Location	
PartNumber	Article number
SerialNumber	Serial number
DateOfManufacture	Production date
ProductDescription	Type designation
Hardware-Version	Hardware version
Firmware-Version	Firmware version
Boot-Status	Current boot partition: (system0 or system1)
Boot-Version	Bootloader version
MAC-Address	MAC address
Panel-Config	Panel configuration
IPv4-Address	Usages IPv4 Address
HostName	Host name

5.4 Log out

Selection of the logout button in the navigation. In addition to the manual logout, an automatic logout takes place after an inactive time of 5 Minutes.

6 Maintenance

6.1 Cleaning

Front glass

A damp (microfibre) cloth is recommended for cleaning the front glass.



ADVICE

At cleaning, it is recommended that the panel is shut down beforehand to avoid any unintentional actuation.

7 Technical data

7.1 Tabular data

Insulation coordination according to IEC 60664-1

Rated voltage	50 V
Overtoltage category	OVERVOLTAGE CATEGORY II
Pollution degree	2
Rated impulse voltage	800 V

Supply

Nominal voltage	DC 24 V SELV
Nominal voltage tolerance	±15 %
Typical power consumption at DC 24 V	16 W
Maximum power consumption at DC 24 V	30 W
USB power supply	DC 5 V, 300 mA
Maximum cable length for Supply via B94053111 (24 V DC power supply unit 1.75 A):	< 3 m

Displays, memory

Display/resolution	15.6" TFT touch display/1920 x 1080 pixels
Backlight	800 cd/m ²
Glass thickness	3 mm
Colours	24 bit RGB

Interfaces

Ethernet	
Connection	RJ45
Line	≥ Cat. 5 Shielded, shield on both sides To PE
Cable length	< 100 m
Data rate	10/100/1000 Mbit/s, autodetect
DHCP	On/off (on)*
IP address	nnn.nnn.nnn.nnn
Netmask	nnn.nnn.nnn.nnn
Protocols	DHCP, NTP, DNS

USB

Amount	3
Operating mode	USB 2.0 host (5 V, 300 mA) High-speed host
Data rate	480 Mbit/s
Cable length	< 3 m
Connection type	USB 2 Standard-A

Used ports

53	DNS (UDP/TCP)
67, 68	DHCP (UDP)
80	HTTP (TCP)
123	NTP (UDP)
443	HTTPS (TCP)

Environment/EMC

EMC (CE immunity)	EN 61000-6-2
EMC (CE interference emission)	EN 61000-6-4
Operating temperature	0 ... +50 °C
Storage temperature	-30 ... +80 °C
Operating altitude	≤ 2000 m above sea level
Relative humidity	≤ 90 %

Others

Operating mode	Continuous operation
Installation position	Display orientated
Protection class front	IP65
Protection class housing	IP20
Protection class rear	IP20
Device dimensions (W x H x D)	274.59 x 425.16 x 36 mm
Device weight (device only)	3.84 kg

()* = Factory setting

7.2 Order details

Device

Type	Scope of delivery	Art. No.
RCP115	<ul style="list-style-type: none"> • Clamping plates for installation in the switch cabinet door • 2 m power supply cable with M12 plug (open end) • Screws • Quick-start guide • Safety instructions 	B95062115

Accessories

Type	Scope of delivery	Note	Art. No.
Surface-mounted housing	<ul style="list-style-type: none"> • Enclosure • Screws • Quick-start guide • Safety instructions 		B95062910
Flush-mounted housing	<ul style="list-style-type: none"> • Enclosure • Screws • Cavity installation kit • Quick-start guide • Safety instructions 		B95062915
Suction lifter		Required to remove the display	B95061911
STEP-PS/1 AC/24 DC/1.75		External power supply unit	B94053111

7.3 Conformity



EU Declaration of Conformity

The EU Declaration of Conformity is available at the following Internet address:

https://www.bender.de/fileadmin/content/Products/CE/CEKO_RCP115.pdf

UKCA Declaration of Conformity

The UKCA Declaration of Conformity is available at the following Internet address:

https://www.bender.de/fileadmin/content/Products/UKCA/UKCA_RCP115.pdf

7.4 Change history Documentation

Date	Document version	State/changes
04.2026	00	First edition



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account the edition valid until 04.2026
unless otherwise indicated.