RS-485 to TCP/IP converter

TCPRS1+
TCPRS1+ PSDC

INSTRUCTION MANUAL

(M349B01-03-25A)

CE


22
PAP

SAFETY PRECAUTIONS

Follow the warnings described in this manual with the symbols shown below.

DANGER
Warns of a risk, which could result in personal injury or material damage.

ATTENTION
Indicates that special attention should be paid to a specific point.

If you must handle the unit for its installation, start-up or maintenance, the following should be taken into consideration:

Incorrect handling or installation of the device may result in injury to personnel as well as damage to the device. In particular, handling with voltages applied may result in electric shock, which may cause death or serious injury to personnel. Defective installation or maintenance may also lead to the risk of fire.

Read the manual carefully prior to connecting the device. Follow all installation and maintenance instructions throughout the device's working life. Pay special attention to the installation standards of the National Electrical Code.

Refer to the instruction manual before using the device

In this manual, if the instructions marked with this symbol are not respected or carried out correctly, it can result in injury or damage to the device and / or installations.

CIRCUTOR S.A.U. reserves the right to modify features or the product manual without prior notification.

DISCLAIMER

CIRCUTOR S.A.U. reserves the right to make modifications to the device or the unit specifications set out in this instruction manual without prior notice.

CIRCUTOR S.A.U. on its web site, supplies its customers with the latest versions of the device specifications and the most updated manuals.

www.circutor.com

CIRCUTOR S.A.U. recommends using the original cables and accessories that are supplied with the device.

CONTENTS

REVISION LOG

Table 1: Revision log.

Date	Revision	Description
12/21	M349B01-03-21A	First Version
09/22	M349B01-03-22A	Changes in the following sections: 2.
11/22	M349B01-03-22B	Changes in the following sections: 5.4.
01/23	M349B01-03-23A	Changes in the following sections: 5.4.
11/25	M349B01-03-25A	Changes in the following sections: 2. - 5.2. - 5.3. - 5.4. - 5.5. -6. - 9.

SYMBOLS

Table 2: Symbols.

Symbol	Description
CE	In accordance with the relevant European directive.
	Device covered by European Directive 2012/19/EC. At the end of its useful life, do not leave the device in a household refuse bin. Follow local regulations on electronic equipment recycling.
⎓	Direct current.
~	Alternating current.

Note: *The images of the devices are for illustrative purposes only and may differ from the original device.*

1.- VERIFICATION UPON RECEPTION

Upon reception of the device check the following points:

a) The device meets the specifications described in your order.
b) The device has not suffered any damage during transport.
c) Perform an external visual inspection of the device prior to switching it on.
d) Check that it has been delivered with the following:

- An installation guide

> If any problem is noticed upon reception, immediately contact the transport company and/or **CIRCUTOR**'s after-sales service

2.- PRODUCT DESCRIPTION

The **TCPRS1+/TCPRS1+ PSDC** is a gateway designed to convert an RS-485 physical environment to Ethernet and/or Wi-Fi. The device features a Web Server and an app Android and iOS (**MyConfig)**, from which the user can completely edit the configuration parameters of the device.

The device has:

- **6** indication **LEDs**.

Note: *For Modbus TCP/IP and TCP protocols, the* **TCPRS1+/TCPRS1+ PSDC** *can be queried for up to 2 Masters at the same time (maximum 5 sockets).*

3.- INSTALLATION OF THE DEVICE

3.1.- PRELIMINARY RECOMMENDATIONS

In order to use the device safely, personnel operating it must follow the safety measures that comply with the standards of the country where it is to be installed; operators must wear the required personal protective equipment (rubber gloves, approved facial protection and flame-resistant clothing) to prevent injuries from electric shock or arcs caused by exposure to current-carrying conductors, and they must heed the various warnings indicated in this instruction manual.

The **TCPRS1+/TCPRS1+ PSDC** device must be installed by authorised, qualified personnel.

The power supply plug must be disconnected and measurement systems switched off before handling, altering the connections or replacing the device. It is dangerous to handle the device while it is powered.

Cables must always be kept in perfect condition to avoid accidents or injury to personnel or installations.

The manufacturer of the device is not responsible for any damage resulting from failure by the user or installer to heed the warnings and/or recommendations set out in this manual, nor for damage resulting from the use of non-original products or accessories or those made by other manufacturers.

Before carrying out maintenance, repair or handling of any of the device's connections, the device must be disconnected from all power sources, both from the device's own power supply and the measurement's.
Contact the after-sales service if you detect that the device is not working properly.

3.2.- INSTALLATION

When the device is on, its terminals, opening covers or removing elements may expose the user to parts that are hazardous to touch. Do not use the device until it is fully installed.

The device must be installed inside electric panel or enclosure, with DIN rail mounting (IEC 60715).

The device must be connected to a power circuit that is protected with gL (IEC 60269) or M class fuses with a rating of 1 to 2 A. It must be fitted with a circuit breaker or equivalent device, in order to be able to disconnect the device from the power supply network.
The power and voltage measuring circuit must be connected with cables that have a minimum cross-section of 1 mm^2.

3.3.- DEVICE TERMINALS

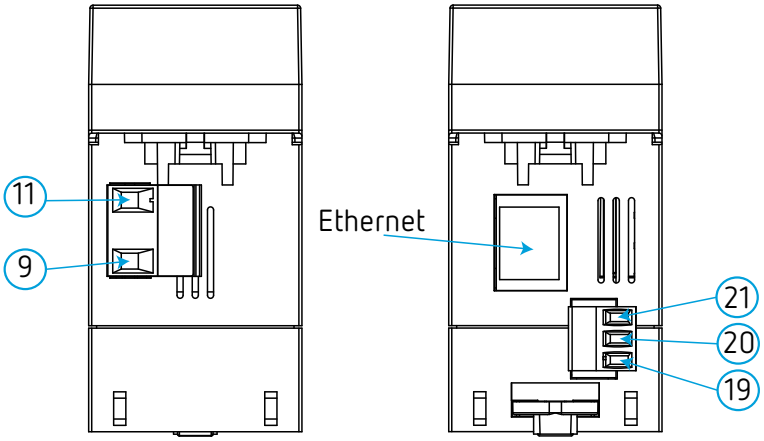


Figure 1: TCPRS1+/TCPRS1+ PSDC terminals.

Table 3: List of TCPRS1+/TCPRS1+ PSDC terminals.

Device terminals	
9: A1 ~/+, Power supply	**20: S**, GND for RS-485
11: A2 ~/-, Power supply	**21: A+**, RS-485
19: B-, RS-485	**Ethernet:** Ethernet connection

4.- OPERATION

4.1.- LED INDICATORS

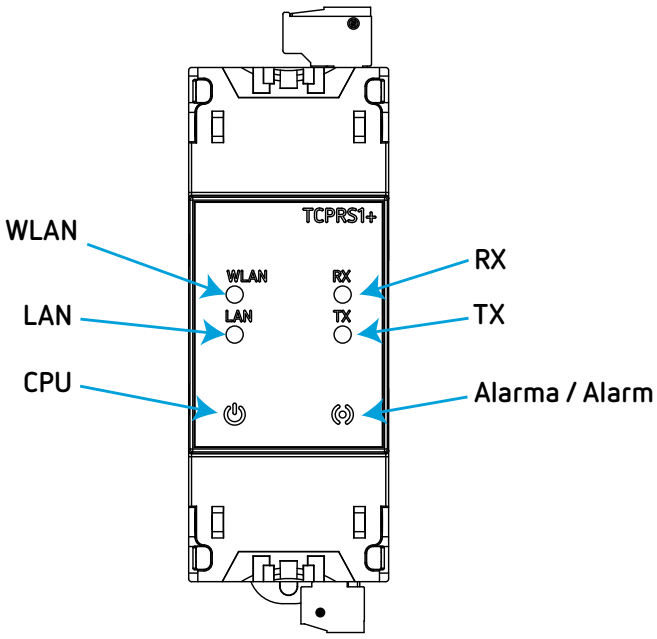


Figure 2: LEDs: TCPRS1+/TCPRS1+ PSDC.

The **TCPRS1+/TCPRS1+ PSDC** have 6 indicating LEDs:

✓ **CPU**, Indicates device status:

Table 4: LED CPU.

LED	Description
CPU	**Flashing:**
	White color: Indicates that the device is powered

✓ **WLAN**, Indicates the status of Wi-Fi connectivity:

Table 5: LED WLAN.

LED	Description
WLAN	**On:**
	Blue color: Indicates that the Wi-Fi connection is activated

✓ **LAN**, Indicates the status of Ethernet connectivity:

Table 6: LED LAN.

LED	Description
LAN	**On:**
	Green color: Indicates that the Ethernet connection is activated

✓ **RX**, **TX**, Indicates the status of RS-485 communications:

Table 7: LEDs RX and TX.

LED	Description
RX	**Flashing:**
	Orange color: Indicates the frame reception.
TX	**Flashing:**
	Orange color: Indicates the frame delivery.

✓ **Alarm**, Indicates that an alarm has been generated:

Table 8: LED Alarm.

LED	Description
Alarm	**On:**
	Red color: Frame reception error.

Table 9 shows other LED indications:

Table 9: LEDs.

LEDs	Description
CPU + Alarm	**Rapid flashing:**
	Indicates that the device is updating.

5.- COMMUNICATIONS

5.1.- USAGE ENVIRONMENT AND HEALTH

Wireless communications emit radio frequency electromagnetic energy, like other radio devices.

Because wireless communications operate under the guidelines found in radio frequency standards and recommendations, they are safe for users to use.

In some settings and situations the use of wireless communications may be restricted by the building's owner of representatives of the organisation.
These may include:

✓Use of wireless connections on board aircraft, in hospitals or near service stations, blasting areas, medical implants or electronic medical devices implanted in the human body (pacemakers, etc.).

✓ In any other setting where the risk of interference with other devices or services is a hazard.

If you are not sure of the applicable usage policy for wireless devices in a specific organisation (airport, hospital, etc.) we recommend requesting permission to use wireless communications.

5.2.- CYBERSECURITY BEST PRACTICES FOR INDUSTRIAL ENVIRONMENTS

This device features Ethernet and Wi-Fi communication interfaces and has been designed and manufactured in accordance with the following regulations:

✓ **Directive 2014/53/UE (RED)**:

- Electrical safety.
- Electromagnetic compatibility.
- Efficient use of the radio spectrum.

✓**Delegated Regulation (EU) 2022/30 (RED-DA) in accordance with requirement 3.3(d), as per standard EN 18031-1:**

- Protection against unauthorised access.
- Preservation of network integrity.
- Protection of the user's personal data.

To ensure secure operation, the following cybersecurity best practices must be applied during configuration and deployment:

✓**Minimum secure network requirements:**

- Install the device on private industrial networks (not on public or open networks).
- Segment the network using **VLANs** (Virtual Local Area Networks) or dedicated subnets.
- Use firewalls or perimeter devices to filter traffic.
- Enable only the ports and protocols required for the operation of the device.
- If not strictly necessary, block or restrict the device's access to the Internet.
- Restrict physical network access to authorised personnel only.

✓**Wi-Fi network security:**

• Connect the device only to Wi-Fi networks using **WPA2** or **WPA3** authentication.
• Avoid open networks, **WEP** (Wired Equivalent Privacy), or other obsolete and insecure protocols.
• If the Wi-Fi interface is not required for the installation, disable it from the device's communication menu to reduce risk.

✓**Password and authentication management:**

• All default passwords **must be** changed upon initial commissioning.
• Use passwords with the following characteristics (according to **NIST SP 800-63B**):
  - Minimum length of 15 characters.
  - Combination of uppercase, lowercase, numbers, and symbols.

These measures help prevent unauthorised access through brute force or dictionary attacks.

✓**Cryptography:**

• All interfaces of the device (Ethernet, Wi-Fi, REST API, Web interface) use secure cryptographic protocols:

  - **WPA2** or **WPA3** for Wi-Fi.
  - **TLS 1.2** or higher for encrypted communications.
  - Algorithms validated by **NIST** (National Institute of Standards and Technology).

• Obsolete technologies are not used, including: **WEP**, **SSL**, **Telnet**, and unencrypted **HTTP**.

✓**Updates and maintenance:**

• Firmware updates must be carried out exclusively from verified and trusted sources, thereby ensuring the integrity and authenticity of the software loaded onto the device.
• Prior to applying a new version, the system shall verify the validity of the digital signature associated with the firmware, ensuring it has not been tampered with.

• It is recommended to:

  - Establish preventive maintenance procedures.
  - Implement a periodic update plan as part of the cybersecurity policy.
  - Document updates as part of the device lifecycle management.

5.3.- Wi-Fi COMMUNICATIONS

Wi-Fi is one of the most widespread wireless technologies today. It is used to connect electronic devices and exchange information between them without having to connect them physically.

The **TCPRS1+/TCPRS1+ PSDC** devices feature Wi-Fi communications in the 2.4 GHz band, and are compliant with the IEEE 802.11b, IEEE 802.11g and IEEE 802.11n standards.

Note: *If the signal level is < 25%, it is recommended to use Ethernet communications to avoid any incidence in the data recording.*

Note: *The* **TCPRS1+/TCPRS1+ PSDC** *has the service Wi-Fi IP 192.168.222.1. In order to access this IP, you must first connect to the device's Wi-Fi Access Point network (TCPRS1+-XXXX). The password corresponds to the last 8 digits of the device serial number.*

5.4.- MOBILE APP

The **MyConfig** mobile application, which allows you to configure communications, can be downloaded free of charge from Google Play (Android) and App Store (iOS).

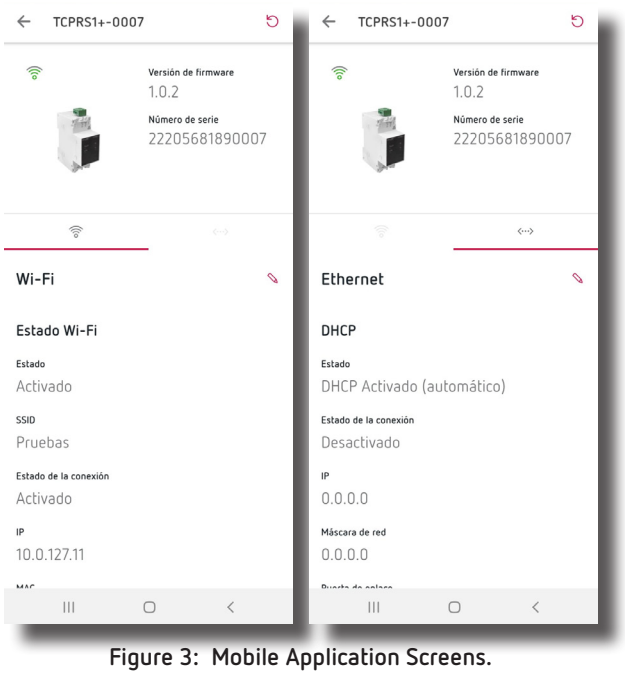


Figure 3: Mobile Application Screens.

5.5.- WEB PAGE

To access the internal configuration website, the device's IP address has to be entered into the browser address bar. The **TCPRS1+/TCPRS1+ PSDC** is set by default to DHCP mode.

The IP address can be obtained using the **MyConfig** application. The device can be identified by its MAC address using software such as *Advanced IP Scanner or IP Setup Program*.

To access the configuration website, open the screen shown in **Figure 4** and enter the Username and Password. The default values are shown in **Table 10**.

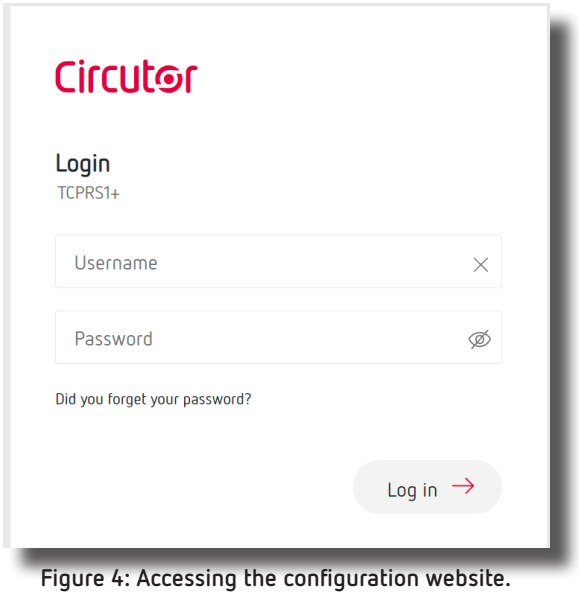


Figure 4: Accessing the configuration website.

Table 10: Accessing the configuration website.

Accessing the configuration website	
Username	admin
Password	circutor

If you have forgotten the access password, click on the option **Did you forget your password?**, to be able to change the password using the serial number of the device.

Note: *For security reasons, it is mandatory to change the access password.*
Note: *To register the device in the PSS software, the credentials defined on this website must be used.*

The website of the device can be used to:

✓ On the **Device Info** screen, view the device's information and settings for Ethernet, Wi-Fi and RS-485 communications (**Figure 5**).

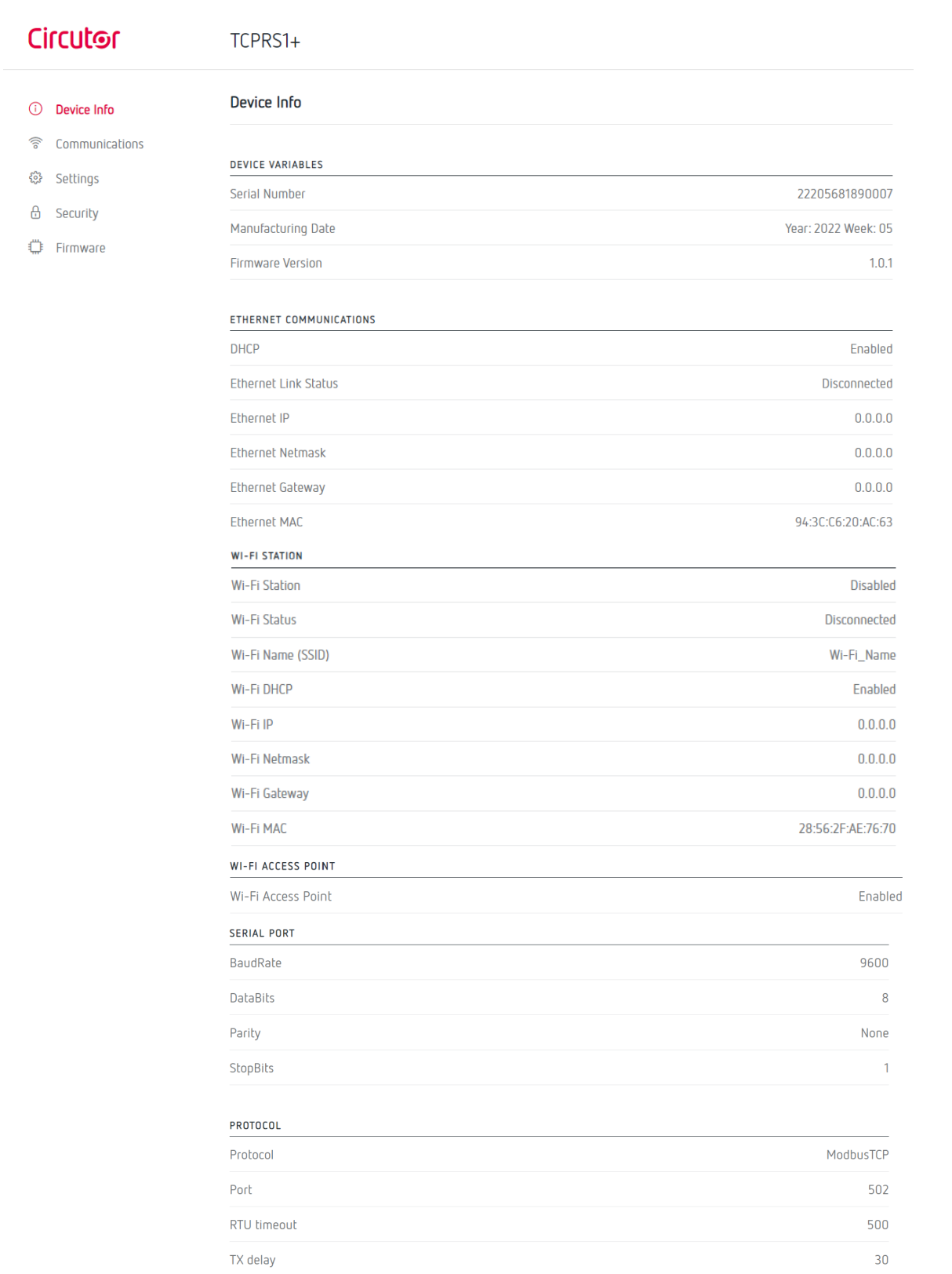


Figure 5: Website: Device Info.

✓ On the **Communications** screen, modify the settings for Ethernet and Wi-Fi communications, as well as enable or disable the Wi-Fi Access Point network used for configuration through the **MyConfig** App (**Figure 6**).

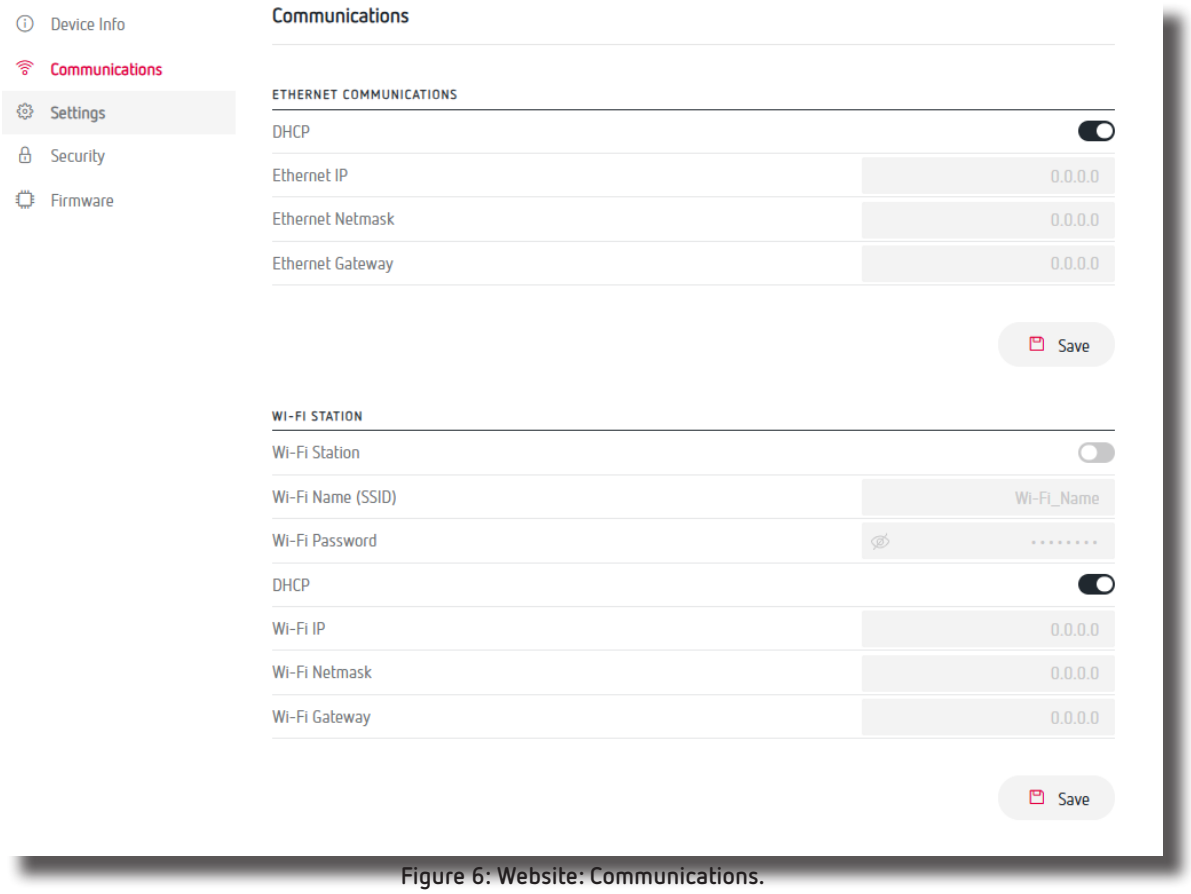


Figure 6: Website: Communications.

✓ On the **Settings** screen, edit the RS-485 communications settings (**Figure 7**).
Note: ***Figure 7*** *shows the default values.*

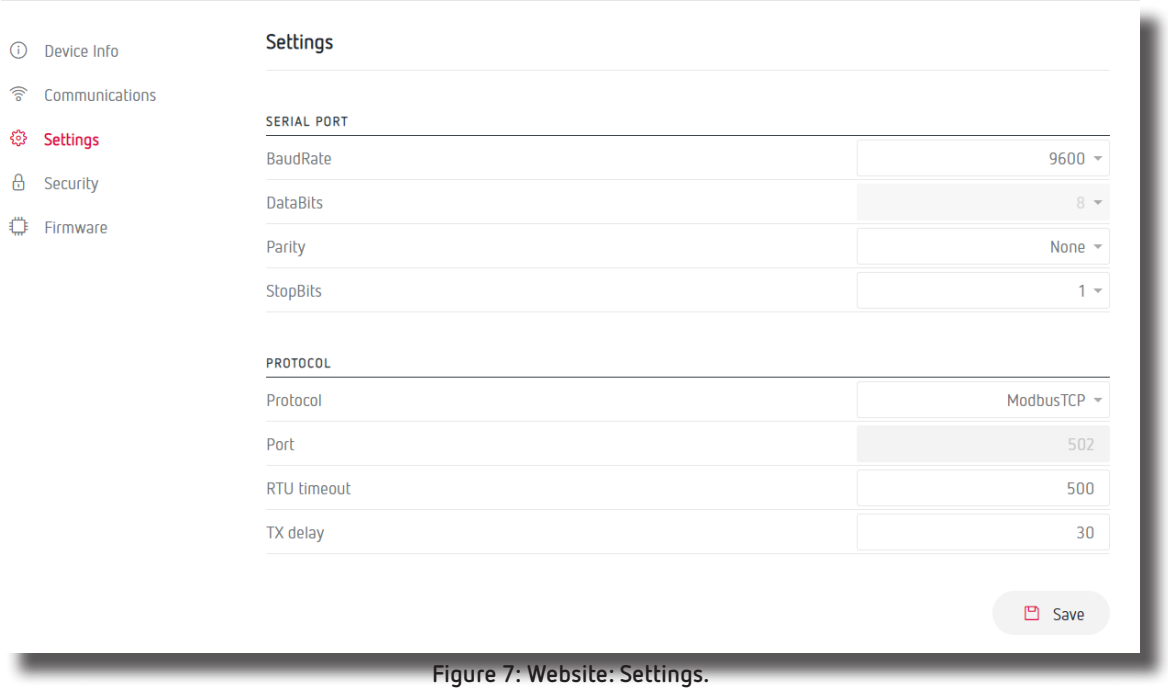


Figure 7: Website: Settings.

✓ On the **Security** screen (**Figure 8**), change the login password to the configuration website.

Figure 8: Website: Security.

✓ On the **Firmware** screen, update the device's firmware (**Figure 9**).

Figure 9: Website: Firmware.

When the device is updating, the **CPU** and **Alarm** LEDs flash alternately every second.

Note: *After updating the device, you have to exit the web page and enter it again to avoid display problems in the browser.*

6.- TECHNICAL FEATURES

AC Power supply (Model TCPRS1+)	
Rated voltage	100 ... 264 V~
Frequency	50 ... 60 Hz
Consumption	2 ... 7 VA
Installation category	CAT III

DC Power supply		
Rated voltage	TCPRS1+	TCPRS1+ PSDC
	100 ... 300 V ⎓	10 ... 36 V ⎓
Consumption	1.6 ... 2 W	2 ... 2.5 W
Installation category	CAT III	CAT III 50V

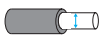
RS-485 Interface	
Bus	RS-485
Baud rate	4800 - 9600 - 19200 - 38400 - 57600 - 115200 bps
Data bits	7 - 8
Stop bits	1 - 2
Parity	without - even - odd

Ethernet Interface	
Type	Ethernet 10BaseT - 100BaseTX self-detectable
Connector	RJ45
Protocol	TCP - UDP - Modbus TCP/IP - HTTPS (Web server) - REST
Connection mode to network	DHCP ON/OFF (ON by default)

Wi-Fi communication	
Band	2.4 GHz (Range: 2.4 ... 2.5 GHz)
Standard	IEEE 802.11 b / g , IEEE 802.11 n (up to 150 Mbps)
Max. output power	**IEEE 802.11 b:** 20 dBm **IEEE 802.11 n:** 14 dBm

User interface	
LED	6 LEDs

Environmental features	
Operating temperature	-20°C ... +60°C
Storage temperature	-20°C ... +70°C
Relative humidity (non-condensing)	5 ... 95%
Maximum altitude	2000 m
Protection degree IP	IP30, Front: IP40
Protection degree IK	IK08
Pollution degree	2
Use	Indoor

Mechanical features			
Terminals			
9, 11, 19 ... 21	2.5 mm^2	≤ 0.4 Nm, M2.5	flat
Dimensions	**Figure 10** (mm)		
Weight	126 g.		

(Continuation) Mechanical features	
Enclosure	Self-extinguishing V0 plastic
Attachment	DIN rail[1]

[1] Recommended minimum distance between DIN rails: 150 mm.

Standards	
Audio/video, information and communication technology equipment - Part 1: Safety requirements	EN 62368-1:2020/ A11:2020/ AC:2020-05
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility	ETSI EN 301 489-1 V2.2.3
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband and Wideband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	ETSI EN 301 489-17 V3.2.6
Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	ETSI EN 300 328 V2.2.2
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)	UNE-EN IEC 62311
Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	UNE-EN 60068-2-78
Environmental testing -- Part 2-1: Tests - Test A: Cold (IEC 60068-2-1:2007).	UNE-EN 60068-2-1
Environmental testing -- Part 2-2: Tests - Tests B: Dry heat. (IEC 60068-2-2:2007)	UNE-EN 60068-2-2
Electromagnetic compatibility (EMC) -- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	UNE-EN 61000-4-2
Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	UNE-EN 61000-4-4
Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	UNE-EN 61000-4-5
Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	UNE-EN 61000-4-6
Electromagnetic compatibility (EMC) -- Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	UNE-EN 61000-4-8
Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides	UNE-EN 61000-4-20
Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	UNE-EN 55016-2-1
Common security requirements for radio equipment - Part 1: Internet connected radio equipment	EN 18031-1:2024

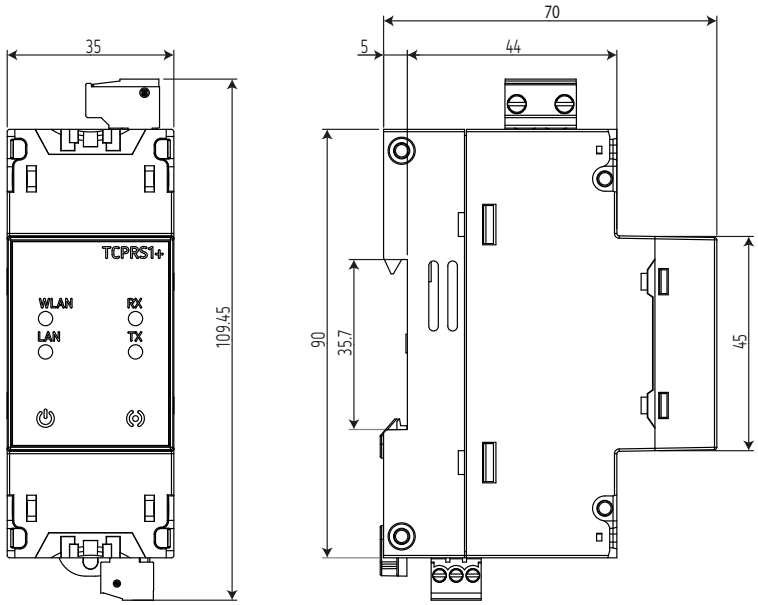


Figure 10: TCPRS1+ / TCPRS1+ PSDC dimensions.

7.- MAINTENANCE AND TECHNICAL SERVICE

In the case of any query in relation to device operation or malfunction, please contact the **CIRCUTOR S.A.U.** Technical Support Service.

Technical Assistance Service
Vial Sant Jordi, s/n, 08232 - Viladecavalls (Barcelona)
Tel: 902 449 459 (Spain) / +34 937 452 919 (outside of Spain)
email: sat@circutor.com

8.- GUARANTEE

CIRCUTOR guarantees its products against any manufacturing defect for two years after the delivery of the units.

CIRCUTOR will repair or replace any defective factory product returned during the guarantee period.

• No returns will be accepted and no unit will be repaired or replaced if it is not accompanied by a report indicating the defect detected or the reason for the return.
• The guarantee will be void if the units has been improperly used or the storage, installation and maintenance instructions listed in this manual have not been followed. "Improper usage" is defined as any operating or storage condition contrary to the national electrical code or that surpasses the limits indicated in the technical and environmental features of this manual.
• **CIRCUTOR** accepts no liability due to the possible damage to the unit or other parts of the installation, nor will it cover any possible sanctions derived from a possible failure, improper installation or "improper usage" of the unit. Consequently, this guarantee does not apply to failures occurring in the following cases:
- Overvoltages and/or electrical disturbances in the supply;
- Water, if the product does not have the appropriate IP classification;
- Poor ventilation and/or excessive temperatures;
- Improper installation and/or lack of maintenance;
- Buyer repairs or modifications without the manufacturer's authorisation.

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(ES) DECLARACIÓN UE DE CONFORMIDAD

La presente declaración de conformidad se expide bajo la exclusiva responsabilidad de CIRCUTOR con dirección en **Vial Sant Jordi, s/n – 08232 Viladecavalls (Barcelona) España**

Producto:

Convertidor RS-485 a WIFI y Ethernet

Serie:

TCPRS1+, TCPRS1+ PSDC

Marca:

CIRCUTOR

EL objeto de la declaración es conforme con la legislación de armonización pertinente en la UE, siempre que sea instalado, mantenido y usado en la aplicación para la que ha sido fabricado, de acuerdo con las normas de instalación aplicables y las instrucciones del fabricante

2014/35/EU: Low Voltage Directive	2014/30/EU: EMC Directive
2014/53/EU: Radio Equipment Directive	2011/65/EU + 2015/863/EU: RoHS Directive

Está en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativos(s):

EN IEC 62368-1:2020+ A11:2020	IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010	ETSI EN 301 489-1 V2.2.3
ETSI 301 489-17 v3.2.4	ETSI EN 300 328 v2.2.2
EN 18031-1:2024	IEC 63000:2016+AMD1:2022

(EN) EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of CIRCUTOR with registered address at **Vial Sant Jordi, s/n – 08232 Viladecavalls (Barcelona) Spain**

Product:

RS-485 / WIFI & Ethernet Converter

Series:

TCPRS1+, TCPRS1+ PSDC

Brand:

CIRCUTOR

The object of the declaration is in conformity with the relevant EU harmonisation legislation, provided that it is installed, maintained and used for the application for which it was manufactured, in accordance with the applicable installation standards and the manufacturer's instructions

2014/35/EU: Low Voltage Directive	2014/30/EU: EMC Directive
2014/53/EU: Radio Equipment Directive	2011/65/EU + 2015/863/EU: RoHS Directive

It is in conformity with the following standard(s) or other regulatory document(s):

EN IEC 62368-1:2020+ A11:2020	IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010	ETSI EN 301 489-1 V2.2.3
ETSI 301 489-17 v3.2.4	ETSI EN 300 328 v2.2.2
EN 18031-1:2024	IEC 63000:2016+AMD1:2022

(FR) DÉCLARATION UE DE CONFORMITÉ

La présente déclaration de conformité est délivrée sous la responsabilité exclusive de CIRCUTOR dont l'adresse postale est **Vial Sant Jordi, s/n – 08232 Viladecavalls (Barcelone) Espagne**

Produit:

Convertisseur RS-485 / WIFI & Ethernet

Série:

TCPRS1+, TCPRS1+ PSDC

Marque:

CIRCUTOR

L'objet de la déclaration est conforme à la législation d'harmonisation pertinente dans l'UE, à condition d'avoir été installé, entretenu et utilisé dans l'application pour laquelle il a été fabriqué, conformément aux normes d'installation applicables et aux instructions du fabricant

2014/35/EU: Low Voltage Directive	2014/30/EU: EMC Directive
2014/53/EU: Radio Equipment Directive	2011/65/EU + 2015/863/EU: RoHS Directive

Il est en conformité avec la(les) suivante (s) norme(s) ou autre(s) document(s) réglementaire (s):

EN IEC 62368-1:2020+ A11:2020	IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010	ETSI EN 301 489-1 V2.2.3
ETSI 301 489-17 v3.2.4	ETSI EN 300 328 v2.2.2
EN 18031-1:2024	IEC 63000:2016+AMD1:2022

Viladecavalls (Spain), 28/8/2025
Chief Executive Officer: Joan Comellas Cabeza

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(DE)

KONFORMITÄTSERKLÄRUNG UE

Vorliegende Konformitätserklärung wird unter alleiniger Verantwortung von CIRCUTOR mit der Anschrift, Vial Sant Jordi, s/n – 08232 Viladecavalls (Barcelona) Spanien, ausgestellt

Produkt:

RS-485 / Ethernet Umsetzer

Serie:

TCPRS1+, TCPRS1+ PSDC

Marke:

CIRCUTOR

Der Gegenstand der Konformitätserklärung ist konform mit der geltenden Gesetzgebung zur Harmonisierung der EU, sofern die Installation, Wartung undVerwendung der Anwendung seinem Verwendungszweck entsprechend gemäß den geltenden Installationsstandards und der Vorgaben des Herstellers erfolgt

2014/35/EU: Low Voltage Directive	2014/30/EU: EMC Directive
2014/53/EU: Radio Equipment Directive	2011/65/EU + 2015/863/EU: RoHS Directive

Es besteht Konformität mit der/den folgender/folgenden Norm/Normen oder sonstigem/sonstiger Regelwerk/Regelwerken

EN IEC 62368-1:2020+ A11:2020	IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010	ETSI EN 301 489-1 V2.2.3
ETSI 301 489-17 v3.2.4	ETSI EN 300 328 v2.2.2
EN 18031-1:2024	IEC 63000:2016+AMD1:2022

(PT)

DECLARAÇÃO DA UE DE CONFORMIDADE

A presente declaração de conformidade é expedida sob a exclusiva responsabilidade da CIRCUTOR com morada em **Vial Sant Jordi, s/n – 08232 Viladecavalls (Barcelona) Espanha**

Producto:

Conversores de comunicações por cabo

Série:

TCPRS1+, TCPRS1+ PSDC

Marca:

CIRCUTOR

O objeto da declaração está conforme a legislação de harmonização pertinente na UE, sempre que seja instalado, mantido e utilizado na aplicação para a qual foi fabricado, de acordo com as normas de instalação aplicáveis e as instruções do fabricante.

2014/35/EU: Low Voltage Directive	2014/30/EU: EMC Directive
2014/53/EU: Radio Equipment Directive	2011/65/EU + 2015/863/EU: RoHS Directive

Está em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s):

EN IEC 62368-1:2020+ A11:2020	IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010	ETSI EN 301 489-1 V2.2.3
ETSI 301 489-17 v3.2.4	ETSI EN 300 328 v2.2.2
EN 18031-1:2024	IEC 63000:2016+AMD1:2022

(IT)

DICHIARAZIONE DI CONFORMITÀ UE

La presente dichiarazione di conformità viene rilasciata sotto la responsabilità esclusiva di CIRCUTOR, con sede in **Vial Sant Jordi, s/n – 08232 Viladecavalls (Barcellona) Spagna**

prodotto:

Convertitore RS-485 / Ethernet

Serie:

TCPRS1+, TCPRS1+ PSDC

MARCHIO:

CIRCUTOR

L'oggetto della dichiarazione è conforme alla pertinente normativa di armonizzazione dell'Unione Europea, a condizione che venga installato, mantenuto e utilizzato nell'ambito dell'applicazione per cui è stato prodotto, secondo le norme di installazione applicabili e le istruzioni del produttore.

2014/35/EU: Low Voltage Directive	2014/30/EU: EMC Directive
2014/53/EU: Radio Equipment Directive	2011/65/EU + 2015/863/EU: RoHS Directive

È conforme alle seguenti normative o altri documenti normativi:

EN IEC 62368-1:2020+ A11:2020	IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010	ETSI EN 301 489-1 V2.2.3
ETSI 301 489-17 v3.2.4	ETSI EN 300 328 v2.2.2
EN 18031-1:2024	IEC 63000:2016+AMD1:2022

Viladecavalls (Spain), 28/8/2025
Chief Executive Officer: Joan Comellas Cabeza

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(PL)

DEKLARACJA ZGODNOŚCI UE

Niniejsza deklaracja zgodności zostaje wydana na wyłączną odpowiedzialność firmy CIRCUTOR z siedzibą pod adresem: **Vial Sant Jordi, s/n – 08232 Viladecavalls (Barcelona) Hiszpania**

produk:

Konwerter RS-485 / Ethernet

Seria:

TCPRS1+, TCPRS1+ PSDC

marka:

CIRCUTOR

Przedmiot deklaracji jest zgodny z odnośnymi wymaganiami prawodawstwa harmonizacyjnego w Unii Europejskiej pod warunkiem, że będzie instalowany, konserwowany i użytkowany zgodnie z przeznaczeniem, dla którego został wyprodukowany, zgodnie z mającymi zastosowanie normami dotyczącymi instalacji oraz instrukcjami producenta

2014/35/EU: Low Voltage Directive	2014/30/EU: EMC Directive
2014/53/EU: Radio Equipment Directive	2011/65/EU + 2015/863/EU: RoHS Directive

Jest zgodny z następującą(ymi) normą(ami) lub innym(i) dokumentem(ami) normatywnym(i):

EN IEC 62368-1:2020+ A11:2020	IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010	ETSI EN 301 489-1 V2.2.3
ETSI 301 489-17 v3.2.4	ETSI EN 300 328 v2.2.2
EN 18031-1:2024	IEC 63000:2016+AMD1:2022

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