



RS-485 to TCP/IP converter for Computer SMART III

Smart Link VAR (SLVAR)



INSTRUCTION MANUAL

(M389B01-03-24B)





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.

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REVISION LOG

Table 1: Revision log.

Date	Revision	Description
05/23	M389B01-03-23A	First Version
04/24	M389B01-03-24A	Changes the following sections: 5.4.
12/24	M389B01-03-24B	Changes the following sections: 2.- 5.3. - 5.4.

SYMBOLS

Table 2: Symbols.

Symbol	Description
	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:

- The device meets the specifications described in your order.
- The device has not suffered any damage during transport.
- Perform an external visual inspection of the device prior to switching it on.
- 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 **Smart Link VAR (SLVAR)** is a gateway designed to convert an physical environment (RS-485) of the **Computer SMART III** to Ethernet and/or Wi-Fi, in order to connect the capacitor bank to **Scout's** VAR service.

The device features a Web Server and an app (Android o iOS) from which the user can completely edit the configuration parameters of the device.



The device has:

- 6 indication **LEDs**.

Note: For ModbusTCP and TCP protocols, the **SLVAR** 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 **SLVAR** 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 mm².

3.3.- DEVICE TERMINALS

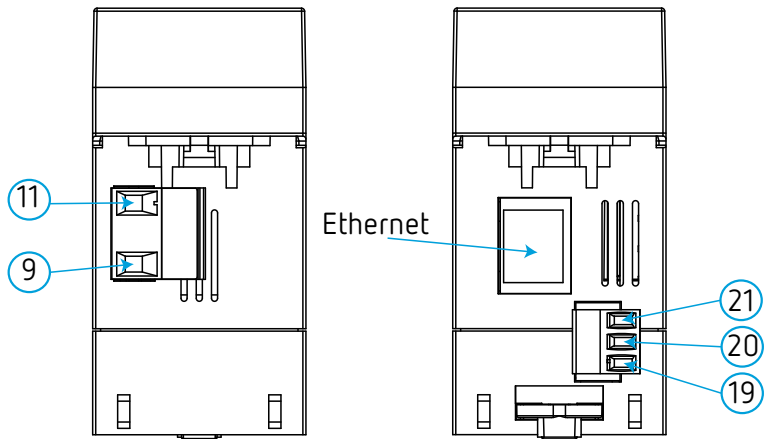


Figure 1: SLVAR terminals.

Table 3: List of SLVAR 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

3.4.- CONNECTION DIAGRAM

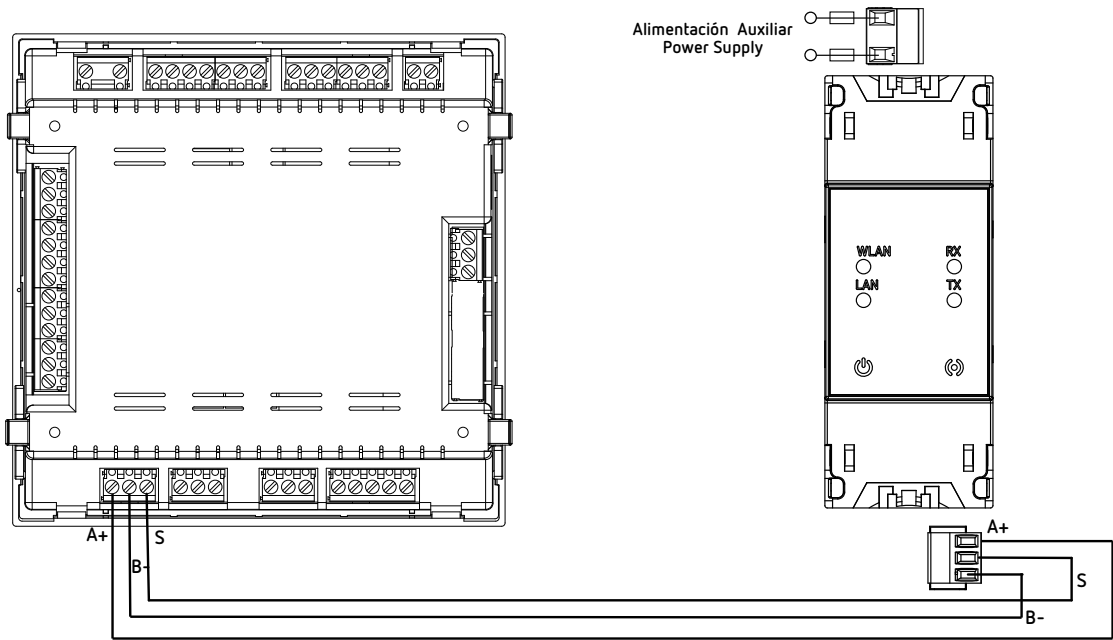


Figure 2: Connection diagram.

Note: For the correct operation of the **SLVAR** it is necessary that the 2 devices are turned on at the same time (or the **Computer SMART III** is turned on first).

4.- OPERATION

4.1.- LED INDICATORS

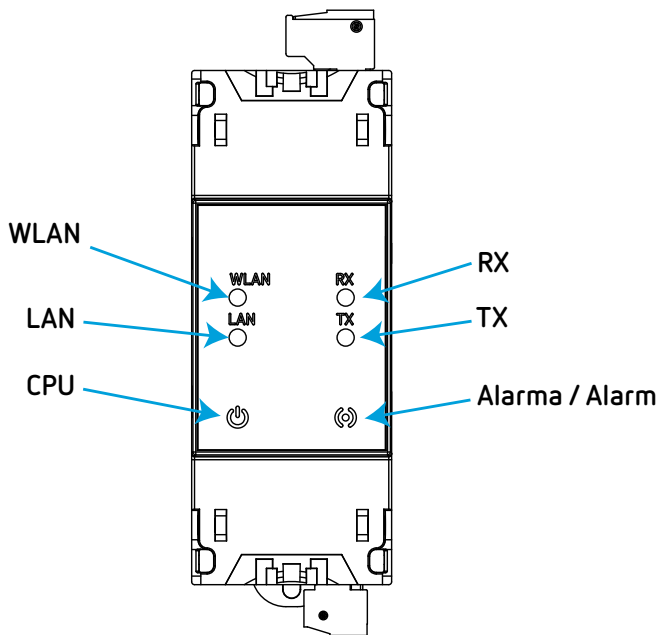


Figure 3: LEDs: SLVAR.

The **SLVAR** 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 / RS-232 communications:

Table 7: LEDs RX and TX.

LED	Description
RX	Flashing:
	<i>Orange color:</i> Indicates the frame reception.
TX	Flashing:
	<i>Orange color:</i> Indicates the frame delivery.

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

Table 8: LED Alarm.

LED	Description
Alarm	On:
	<i>Red color:</i> 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 or 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.- 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 **SLVAR** 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 **SLVAR** 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 (Computer Smart III-XXXX). The password corresponds to the last 8 digits of the device serial number.

5.3.- MOBILE APP

The **Circutor MyConfig** mobile application, which allows you to configure communications, can be downloaded free of charge from Google Play o App Store.

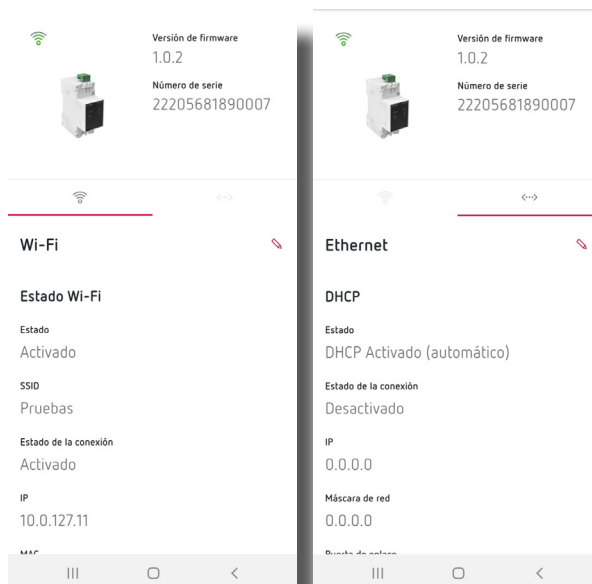


Figure 4: Mobile Application Screens.

5.4.- WEB PAGE

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

The IP address can be obtained using the **Circutor 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 5** and enter the Username and Password. The default values are shown in **Table 10**.

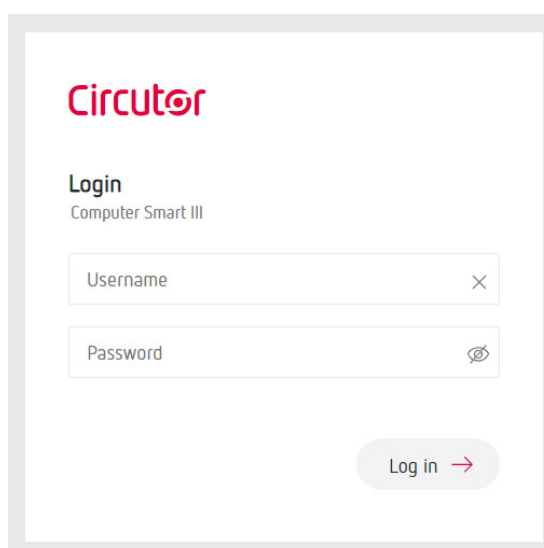


Figure 5: Accessing the configuration website.

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, you need to change the login password. You can change it on the **Security** screen, **Figure 10**.

The website of the device can be used to:

- ✓ On the **Device Info** screen, view the device's information and settings for Ethernet and Wi-Fi communications (**Figure 6**).

Circutor Computer Smart III

Device Info

DEVICE VARIABLES

Serial Number	NO_SERIAL_N
Manufacturing Date	Year: 20xx Week: xx
Model	Unknown
Communications Firmware Version	1.0.0
Measure Firmware Version	0.00.00

MYCIRCUTOR

Connection Status	Connected
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ETHERNET COMMUNICATIONS

DHCP	Enabled
Ethernet Link Status	Connected
Ethernet IP	10.0.120.119
Ethernet Netmask	255.255.255.0
Ethernet Gateway	10.0.120.254
Ethernet MAC	E8:31:CD:CB:B3:6F

WI-FI COMMUNICATIONS

Wi-Fi	Enabled
Wi-Fi Status	58% Connected
Wi-Fi Name (SSID)	CIRCUTOR-WIFI
Wi-Fi IP	10.0.123.187
Wi-Fi Netmask	255.255.255.0
Wi-Fi Gateway	10.0.123.254
Wi-Fi MAC	E8:31:CD:CB:B3:6C

Figure 6: Website: Device Info.

- ✓ On the **Communications** screen, modify the settings for Ethernet and Wi-Fi communications (Figure 9).

The screenshot shows the 'Communications' settings page for the 'Computer Smart III' device. The left sidebar contains a menu with 'Communications' highlighted. The main content area is divided into two sections: 'ETHERNET COMMUNICATIONS' and 'WI-FI COMMUNICATIONS'. In the Ethernet section, the DHCP toggle is turned on, and the IP, Netmask, and Gateway are set to 10.0.120.119, 255.255.255.0, and 10.0.120.254 respectively. In the Wi-Fi section, the Wi-Fi toggle is turned on, the SSID is 'CIRCUTOR-WIFI', and the password is masked with dots. Each section has a 'Save' button at the bottom right.

ETHERNET COMMUNICATIONS	
DHCP	☒
Ethernet IP	10.0.120.119
Ethernet Netmask	255.255.255.0
Ethernet Gateway	10.0.120.254

Save

WI-FI COMMUNICATIONS	
Wi-Fi	☒
Wi-Fi Name (SSID)	CIRCUTOR-WIFI
Wi-Fi Password	

Save

Figure 9: Website: Communications.

- ✓ On the **Security** screen (Figure 10), change the login password to the configuration website.

The screenshot shows the 'Security' settings page for the 'Computer Smart III' device. The left sidebar contains a menu with 'Security' highlighted. The main content area is titled 'CHANGE PASSWORD' and contains three input fields for 'Current password', 'New password', and 'Confirm password', each with a password icon. A 'Save' button is located at the bottom right.

CHANGE PASSWORD	
Current password	
New password	
Confirm password	

Save

Figure 10: Website: Security.

- ✓ On the **Firmware** screen, update the device's firmware (Figure 11).



Figure 11: 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			
Rated voltage	100 ... 264 V~		
Frequency	50 ... 60 Hz		
Consumption	2 ... 7 VA		
Installation category	CAT III		
DC Power supply			
Rated voltage	100 ... 300 V ===		
Consumption	1.6 ... 2 W		
Installation category	CAT III		
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 - HTTP (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 mm²	≤ 0.4 Nm, M2.5	flat
Dimensions	Figure 12 (mm)		
Weight	126 g.		
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
Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)	EN 50663: 2017
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 Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	ETSI EN 301 489-17 V3.2.4
5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	ETSI EN 301 893 V2.1.1

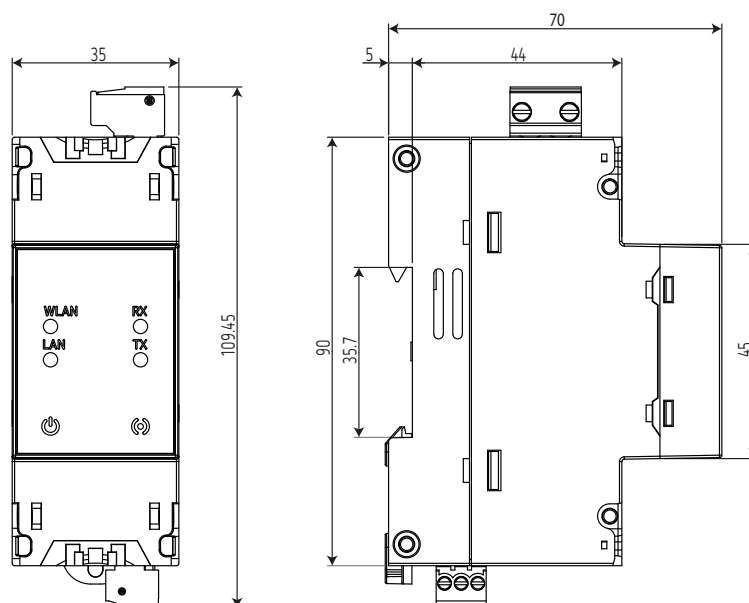


Figure 12: SLVAR dimensions.

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.

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:

Smart Link Var

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
2015/863/EU: RoHS3 Directive 2014/53/EU: RED Directive

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

EN 62311:2020 EN IEC 63000:2018
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

Año de marcado "CE":

2022

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:

Smart Link Var

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
2015/863/EU: RoHS3 Directive 2014/53/EU: RED Directive

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

EN 62311:2020 EN IEC 63000:2018
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

Year of CE mark:

2022

Viladecavalls (Spain), 26/4/2024
Chief Executive Officer: Joan Comellas Cabeza

9.- EU DECLARATION OF CONFORMITY

CIRCUTOR, S.A.U. – Vial Sant Jordi, s/n
08232 Viladecavalls (Barcelona) Spain
(+34) 937 452 900 – info@circutor.com

DECLARATION 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:

Smart Link Var

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

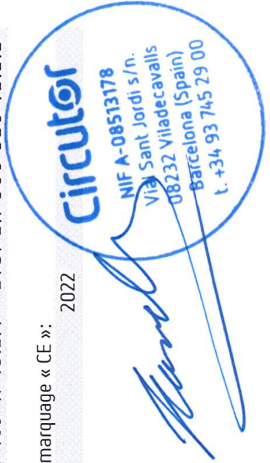
2014/35/EU: Low Voltage Directive 2014/30/EU: EMC Directive
2015/863/EU: RoHS3 Directive 2014/53/EU: RED Directive

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

EN 62311:2020 EN IEC 63000:2018
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

Année de marquage « CE »:

2022





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

Série:

Smart Link Var

Marke:

CIRCUTOR

Der Gegenstand der Konformitätserklärung ist konform mit der geltenden Gesetzgebung zur Harmonisierung der EU, sofern die Installation, Wartung und Verwendung der Anwendung seinem Verwendungszweck entsprechend gemäß den geltenden Installationsstandards und der Vorgaben des *Unternehmers erstellt*

2014/35/EU: Low Voltage Directive 2014/30/EU: EMC Directive
2015/863/EU: RoHS3 Directive 2014/53/EU: RED Directive

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

EN 62311:2020 EN IEC 63000:2018
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

Jahr der CE-Kennzeichnung:

2022



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

Produto:

Conversores de comunicações por cabo

Série:

Smart Link Var

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
2015/863/EU: RoHS3 Directive 2014/53/EU: RED Directive

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

EN 62311:2020 EN IEC 63000:2018
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

Ano de marcação "CE":

2022

Viladecavalls (Spain), 26/4/2024

Chief Executive Officer: Joan Comellas Cabeza



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 (Barcelona) Spagna

prodotto:

Convertitore RS-485 / Ethernet

Série:

Smart Link Var

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
2015/863/EU: RoHS3 Directive 2014/53/EU: RED Directive

È conforme alle seguenti normative o altri documenti normativi:

EN 62311:2020 EN IEC 63000:2018
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

Anno di marcatura "CE":

2022



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

produkt:

Konwerter RS-485 / Ethernet

Seria:

Smart Link Var

marka:

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Przedmiot deklaracji jest zgodny z odnoszonymi 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
2015/863/EU: RoHS3 Directive 2014/53/EU: RED Directive

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

EN 62311:2020 EN IEC 63000:2018
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

Rok oznakowania "CE":

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