



Преобразователь переменного тока SIRAX BT5200

Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93

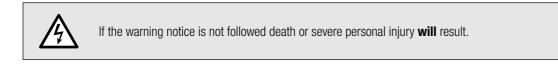
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Legal information

Warning notices

In this document warning notices are used, which you have to observe to ensure personal safety and to prevent damage to property. Depending on the degree of danger the following symbols are used:





If the warning notice is not followed damage to property or severe personal injury **may** result.



If the warning notice is not followed the device **may** be damaged or **may** not fulfill the expected functionality.

Qualified personnel

The product described in this document may be handled by personnel only, which is qualified for the respective task. Qualified personnel have the training and experience to identify risks and potential hazards when working with the product. Qualified personnel are also able to understand and follow the given safety and warning notices.

Intended use

The product described in this document may be used only for the application specified. The maximum electrical supply data and ambient conditions specified in the technical data section must be adhered. For the perfect and safe operation of the device proper transport and storage as well as professional assembly, installation, handling and maintenance are required.

Disclaimer of liability

The content of this document has been reviewed to ensure correctness. Nevertheless it may contain errors or inconsistencies and we cannot guarantee completeness and correctness. This is especially true for different language versions of this document. This document is regularly reviewed and updated.

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1. Introduction

1.1 Purpose of this document

This document describes the universal measurement device SIRAX BT5200. It is intended to be used by:

- Installation personnel and commissioning engineers
- Service and maintenance personnel
- Planners

Scope

This handbook is valid for all hardware versions of the BT5200. Some of the functions described in this document are available only, if the necessary optional components are included in the device.

Required knowledge

A general knowledge in the field of electrical engineering is required. For assembly and installation of the device knowledge of applicable national safety regulations and installation standard is required.

1.2 Scope of supply

- Measurement device SIRAX BT5200
- Safety instructions (multiple languages)

1.3 Further documents

- Safety instructions SIRAX BT5200
- Operating Instructions SIRAX BT5200
- Data sheet SIRAX BT5200

2. Safety notes



Device may only be disposed in a professional manner!



The installation and commissioning should only be carried out by trained personnel.

Check the following points before commissioning:

- that the maximum values for all the connections are not exceeded, see "Technical data" section, - that the connection wires are not damaged, and that they are not live during wiring,

- that the power flow direction and the phase rotation are correct.

The instrument must be taken out of service if safe operation is no longer possible (e.g. visible damage). In this case, all the connections must be switched off. The instrument must be returned to the factory or to an authorized service dealer.

It is forbidden to open the housing and to make modifications to the instrument. The instrument is not equipped with an integrated circuit breaker. During installation check that a labeled switch is installed and that it can easily be reached by the operators.

Unauthorized repair or alteration of the unit invalidates the warranty.

3. Device overview

The SIRAX BT5200 is a top-hat rail mounted Transducer and used to measure and convert AC Current input into an proportional DC current or voltage output signal. Input Current and Output Voltage/Current is displayed on LCD and indicated by LED's.

4. Mechanical mounting

The SIRAX BT5200 is designed for panel mounting.

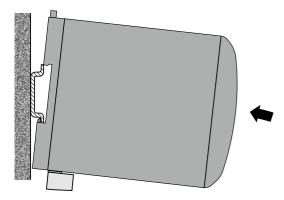


Please ensure that the operating temperature limits are not exceeded when determining the place of mounting (place of measurement): $0\ldots$ +45 °C

4.1 Mounting

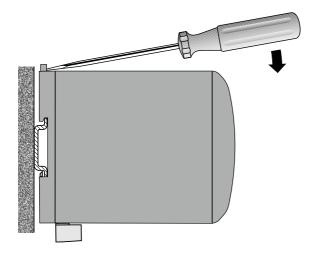
Dimensional drawing BT5200: See section 10

Any mounting position is possible. Device may be clipped onto a top-hat rail according EN 50022.



4.2 Demounting of the device

Disassembly of the device requires that all connected wires be without current. First, remove all push terminals and the wires of the current and voltage inputs. Ensure that possible current transformers are short-circuited before the current connections on the device are opened. Release the transducer from a top-hat rail.



5. Electrical connections



Ensure under all circumstances that the leads are free of potential when connecting them!

5.1 General safety notes



Please observe that the data on the type plate must be adhered to!

The national provisions have to be observed in the installation and material selection of electric lines!

Symbol	Meaning
X	Device may only be disposed of in a professional manner!
Double insulation, device of protection class 2	
CAT III	Measurement category CAT III for current inputs and power supply
CE	CE conformity mark. The device fulfills the requirements of the applicable EC directives. See declaration of conformity.
\triangle	Caution! General hazard point. Read the operating instructions.
	Attention: Danger to life!
	Please note

5.2 Cross sections and tightening torques

Terminals 1 ... 8

Single wire: \leq 4,0mm² or multiwire with end splices: 2 x 2,5mm² Torque: 0.5 ... 0.6Nm rsp. 4.42 ... 5.31 lbf in

Terminal A, B, G

Single wire: \leq 1,5mm² or multiwire with end splices: 2 x 0,5mm² Torque: max. 0.5 Nm rsp. 4.42 lbf in

5.3 Inputs



No fuse may be connected upstream of the current measurement inputs!

When using **current transformers** their secondary connectors must be short-circuited during installation and before removing the device. Never open the secondary circuit under load.

The connection of the inputs depends on the configured system (connection type).

5.4 Power supply



A marked and easily accessible current limiting switch has to be arranged in the vicinity of the device for turning off the power supply. Fusing should be 10 Amps or less and must be rated for the available voltage and fault current.

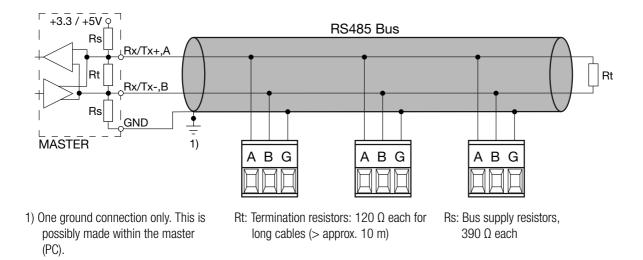
5.5 Connection Diagram

Connection	Terminal details	
Measuring input	I/P ~ I/P ~	5 6
Auxilliary power supply	AUX ∓ AUX ~	7 8
Measuring output - 1	O/P1 + O/P1 -	1 2
Measuring output - 2	O/P2 + O/P2 -	3 4
Modbus	A B G	- - -



5.6 Modbus interface RS485

Via the optional Modbus interface measurement data may be provided for a superior system.



The signal wires (A, B) have to be twisted. G can be connected via a wire or via the cable screen. In disturbed environments shielded cables must be used. To avoid the possibility of loop currents, an Earth connection should be made at one point on the bus. Supply resistors (Rs) have to be present in bus master (PC) interface. Stubs should be avoided when connecting the devices. A pure daisy chain network is ideal.

You may connect up to 32 Modbus devices to the bus. A proper operation requires that all devices connected to the bus have equal communication settings (baud rate, transmission format) and unique Modbus addresses.

The bus system is operated half duplex and may be extended to a maximum length of 1200 m without repeater.

6. Commissioning



Before commissioning you have to check if the connection data of the device

match the data of the plant.

If so, you can start to put the device into operation by switching on the power supply and the measurement inputs.



Label version

6.1 Operating the device



SIRAX BT5200 can be configured and programmed at site for the following: CT Primary, CT Secondary (5A or 1A), Input parameters (i.e start, end and elbow value of Input) and Output parameters (i.e as Voltage or as Current and start, end and elbow value of outputs). The front panel has two keys through which the user may scroll through the output

screens and configure the product.

Operation is performed by means of 2 keys:

2 keys " UP" und " UP" of navigation and for the selection of values.

6.2 LED indication

LED	LED OPERATING CONDITION	LED OPERATING STATUS	
ON	Aux. Supply healthy condition	Green LED continuous ON	
0/P 1	Output 1 voltage Green LED continuous ON		
0/11	Output 1 current	Red LED continuous ON	
0/P 2	Output 2 voltage Green LED co		
0/82	Output 2 current	Red LED continuous ON	

Table 1: Measured parameters

Measured parameters	Unit of Measurement
Current	Атр

6.3 Input and output screens



Screen 1: Display Test



Screen 4: Current Input and Output 1 as Current



Screen 2: Version Screen



Screen 5: Current Input and Output 2 as Voltage



Screen 3: Current Input and Output 1 as Voltage



Screen 6: Current Input and Output 2 as Current

7. Programming

Programming of transducer can be done in three ways:

- 1) Programming via Front LCD & two keys.
- 2) Programming via Programming port available at front of Transducers using optional PRKAB5000 adapter
- 3) Programming via optional RS485 (Modbus) communication port.

7.1 Programming via Front LCD & Two keys

The following sections comprise step by step procedures for configuring the SIRAX BT5200 for individual user requirements. To access the set-UP screens, press and hold the "
DOWN" and "
UP" Key simultaneously for 5 seconds. This will take the User into the Password Protection Entry Stage.

7.1.1. Password Protection

7.1.1.1 Password Verification

Password protection can be enabled to prevent unauthorised access to set-up screens, by default password protection is not enabled. Password protection is enabled by selecting a four digit number other than 0000, setting a password of 0000 disables the password protection.



Enter Password, prompt for first digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the first digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " Dup" key will advance the operation to the next digit and set the first digit.

In the special case where the Password is "0000" pressing the " Up" key when prompted for the first digit will advance to the "Password Set/Confirmed" screen.



Enter Password, first digit entered, prompt for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the "
Up" key will advance the operation to the next digit and set the second digit.



Enter Password, second digit entered, prompt for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the "
Up" key will advance the operation to the next digit and set the third digit.



Enter Password, third digit entered, prompt for fourth digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the "Password Set/Confirmed" and set the fourth digit.



Password Set/Confirmed

Pressing " Down" key will enter to the "New / change Password" entry stage.(section 7.1.1.2) Pressing the " Dup" key will advance to the Potential Transformer parameter selection(section 7.1.2).



Password Incorrect.

This screen is displayed when the unit has not accepted the Password entered.

- Pressing the " Down" key will re-enter to the "Enter Password" entry stage.
- Pressing the " Up" key will exit the setup menu.

7.1.1.2 New/Change Password



New / Change Password

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the first digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in this case to "4"



Enter New / Change Password, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the "
Up" key will advance the operation to the next digit and set the second digit, in this case to "1"



Enter New / Change Password, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the "
Up" key will advance the operation to the next digit and set the third digit, in this case to "4"



Enter New / Change Password, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the "New Password Confirmed" and set the fourth digit, in this case to "1".



New/changed Password confirmed

Pressing the " Down" key will re-enter to the "New/Change Password" entry stage.

Pressing the " • Up" key will confirm New Password and advance to the Potential Transformer parameter selection (section 7.1.2).

7.1.2. Current Transformer parameter selection 7.1.2.1 Current Transformer primary value

This screen allows the user to set the CT Primary value between 1 to 9999.



Pressing the " Down" key will enter the "New/Change CT Primary value edit" mode.

Pressing "
Up" key will confirm the present value as CT Primary and advance to the CT secondary selection (section 7.1.2.2).



New / Change CT Primary value

(*Denotes that decimal point will be flashing).

Pressing the " Down" key will scroll the value of the first digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in this case to "0".



Enter New / Change CT Primary value, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the "
Up" key will advance the operation to the next digit and set the second digit, in this case to "0".





Enter New / Change CT Primary value, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the second digit, in this case to "0".



Enter New / Change CT Primary value, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "5".

New / Change CT Primary value

Pressing the " Down" key will re-enter to the "New / Change CT Primary value" edit mode.

Pressing the " • Up" key will confirm New CT Primary value and advance to the CT secondary selection (section 7.1.2.2).

7.1.2.2 Current Transformer secondary value

This screen allows the user to set the CT Secondary value.



Pressing the " I Down" key will enter the "New/Change CT Secondary value edit" mode.

Pressing the " Dup" key will confirm the present value as CT Secondary and advance to the Communication parameter Selection (section 7.1.3).



New / Change CT Secondary value

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 1 through to 5, the value will wrap from 5 round to 1.

Pressing the " Up" key to advance the operation to the "New / Changed CT Secondary value" and sets the fourth digit, in this case to "5".



New/changed CT Secondary value confirmed.

Pressing the " Down" key will return to the "New / Change CT Secondary value edit" mode.

Pressing the " • Up" key will confirm the CT Secondary and advance to the Communication parameter Selection (section 7.1.3).

7.1.3. Communication Parameter Selection :

7.1.3.1 Address Setting

This screen applies to the RS 485 output only.

This screen allows the user to set RS485 parameter for instruments. The range of allowable address is 1 to 247.



Pressing " Down" key will advance to the "New/Change address value edit" mode.

Pressing the " • Up" key will confirm the present value as Address and advance to Baud Rate selection (section 7.1.3.2).



New/changed Address value

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 2, the value will wrap from 2 round to 0.

Pressing the "
Up" key will advance the operation to the next digit and set the second digit, in this case to "0".





Enter New / Change Address value, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the "
Up" key will advance the operation to the next digit and set the third digit, in this case to "9".

Enter New / Change Address value, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " I Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the "
Up" key will advance the operation to the "New / Changed Address value confirmed" and set the fourth digit, in this case to "6".



New/changed Address value confirmed.

Pressing the " Down" key will re-enter to the "New / Change Address value edit" mode.

Pressing the " • Up" key will confirm New Address value and advance to Baud Rate selection (section 7.1.3.2).

7.1.3.2 RS 485 Baud Rate





This screen allows the user to set Baud Rate of RS 485 port. The values displayed on screen are in kbaud.

Pressing the " Down" key will enter the "Baud Rate edit" mode and scroll the value through 2.4, 4.8, 9.6, 19.2 and back to 2.4 (values are flashing).

Pressing "
Up" key will confirm the present value as Baud rate and advance to the Parity Selection (section 7.1.3.3).

RS 485 Baud Rate confirmation

Pressing "
Down" key will be re-enter into the "Baud Rate Edit" mode.

Pressing the " • Up" key will confirm the Baud rate value and advance to the Parity Selection (section 7.1.3.3).

7.1.3.3 RS 485 Parity Selection:

This screen allows the user to set Parity & number of stop bits of RS 485 port.



Pressing the " Down" key will enter the "Parity & stop bit edit" mode and scroll the value through odd: odd parity with one stop bit no. 1S: no parity with one stop bit no. 2S: no parity with two stop bit E: even parity with one stop bit

Pressing " D Up" key accepts the present value and advance to the Output Type selection (section 7.1.4).

RS 485 Parity confirmation



Pressing " Down" key will be re-enter into Parity Edit mode.

Pressing the "
Up" key will set the value and advance to the Output Type selection (section 7.1.4).

7.1.4. Output Type Selection 7.1.4.1 Output 1 Type selection

This screen allows the user to set the output 1 type as Voltage or Current.





Pressing the " Down" key will enter the "output 1 type edit" mode and scroll between voltage and current.

Pressing " Dup" key will confirm the present type for Output 1 and advance to the Output 2 type selection (section 7.1.4.2).

Output 1 Type confirmation

Pressing " Down" key will re-enter into Output 1 type Edit mode.

Pressing the " Dup" key will set the type and advance to the Output 2 type selection (section 7.1.4.2).

7.1.4.2 Output 2 Type Selection

This screen allows the user to set the output 2 type as Voltage or Current.



Pressing the " I Down" key will enter the "output 2 type edit" mode and scroll between voltage and current.

Pressing " D Up" key accepts the present type for Output 2 and advance to the Input Parameter selection (section 7.1.5).



Output 2 Type confirmation

Pressing " Down" key will re-enter into Output 2 type Edit mode.

Pressing the " • Up" key will set the type and advance to the Input Parameter selection (section 7.1.5).

7.1.5. Input parameter selection

7.1.5.1 End value of Input

This screen allows the user to set the End value of Input. End value of Input can be set from 40% to 150% of set CT secondary value.



Pressing the " Down" key will enter the "New/Change End value of Input edit" mode.

Pressing "
Up" key will confirm the present value as End value of Input and advance to the Start value of Input selection (section 7.1.5.2).







New / Change End value of Input

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0(2) through to1(7), the value will wrap from 1(7) round to 0(2) for 1A(5A) CT secondary.

Pressing the " **D** Up" key will advance the operation to the next digit and set the second digit, in this case to "5".

Enter New / Change End value of Input, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "0".

Enter New / Change End value of Input, third digit entered, prompting for fourth digit. (*Denotes that digit will be flashing).

Pressing the "
 Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the fourth digit, in this case to "0".



New/changed End value of Input confirmed.

Pressing the " I Down" key will re-enter to the "New / Change End value of Input edit" mode.

Pressing the " Up" key will confirm New End value of Input and advance to the Start value of Input selection (section 7.1.5.2).

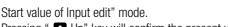
7.1.5.2 Start value of Input

This screen allows the user to set the Start value of Input. Start value of Input can be set up to 80% of End value of Input.

Pressing the " Down" key will enter the "New/Change

INPUT А Տերե SIRAX BT5200





Pressing " Dup" key will confirm the present value as Start value of Input and advance to the Elbow function selection (section 7.1.5.3)





(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 7, the value will wrap from 7 round to 0 depending on set value of End vale of Input.

"0".







Enter New / Change Start value of Input, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0 depending on set value of End vale of Input.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "5".

Enter New / Change Start value of Input, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0 depending on set value of End vale of Input.

Pressing the " I Up" key will advance the operation to the "New / Changed Start value of Input" and set the fourth digit, in this case to "0".

New/changed Start value of Input confirmed.

Pressing the " Down" key will re-enter to the "New / Change Start value of Input edit" mode.

Pressing the " • Up" key will confirm New Start value of Input and advance to the Elbow function selection (section 7.1.5.3).

7.1.5.3 Elbow Function selection

This screen allows the user to enable or disable Elbow function of input.





Pressing the " Down" key will enter the "Selection of Elbow function of Input edit" mode and scroll the value between yes and no.

YES: Elbow function is enabled.

NO: Elbow function is disabled.

Pressing " D Up" key will accept the displayed condition and advance to the Elbow value of Input selection (section 7.1.5.4) or Output parameter selection (section 7.1.6).

Elbow Function of Input confirmation

Pressing " **D** Down" key will re-enter into Elbow function of Input Edit mode.

Pressing " D Up" key will confirm the displayed condition and advance to the Elbow value of Input selection (section 7.1.5.4) or Output parameter selection (section 7.1.6).

7.1.5.4 Elbow value of Input

This screen appears only when Elbow function is enabled.

This screen allows the user to set the Elbow value of the Input.

The Elbow value of Input can be set beetween 1.5% to 98.5% of Set End value of Input.



Pressing the " Down" key will enter the "New/Change Elbow value of the Input edit" mode.

Pressing " • Up" key will confirm the present value as Elbow value of the Input and advance to the Output parameter selection (section 7.1.6).





New / Change Elbow value of the Input

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 7, the value will wrap from 7 round to 0 depending on set value of End value of Input.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in this case to "4".

Enter New / Change Elbow value of the Input, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0 depending on set value of End value of Input.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "1".





Enter New / Change Elbow value of the Input, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0 depending on set value of End value of Input.

Pressing the " • Up" key will advance the operation to the "New / Changed Elbow value of the Input" and set the fourth digit, in this case to "O".

New/changed Elbow value of the Input confirmed.

Pressing the " Down" key will re-enter to the "New / Change Elbow value of the Input".

Pressing the "
Up" key will confirm New Elbow value of the Input and advance to the Output parameter selection (section 7.1.6).

7.1.6 Output parameter selection

7.1.6.1 Output 1 parameter selection

7.1.6.1.1 End value of output 1

This screen allows the user to set the End value of Output 1 (considerd as DC Current). The End value of Current Output can be set up to 20mA.



Pressing the " Down" key will enter the "New/Change End value of the Output 1 edit" mode.

Pressing " Dup" key will confirm the present value as End value of the Output 1 and advance to the Start value of Output 1 (section 7.1.6.1.2).





New / Change End value of the Output 1

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the first digit from 0 through to 2, the value will wrap from 2 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in this case to "1".

Enter New / Change End value of the Output 1, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0, if first digit is set to 1.

Pressing the " Dup" key will advance the operation to the next digit and set the second digit, in this case to "8".







7.1.6.1.2 Start value of output 1

This screen allows the user to set the Start value of Output 1 (considerd as DC Current). Start value of Output can be set up to 20% of set End value of Output.







Enter New / Change End value of the Output 1, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "0".

Enter New / Change End value of the Output 1, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the "New / Changed End value of the Output 1" and set the fourth digit, in this case to "0".

New/changed End value of the Output 1 confirmed.

Pressing the " Down" key will re-enter to the "New / Change End value of the Output 1 edit" mode.

Pressing the " • Up" key will confirm New End value of the Output 1 and advance to the Start value of Output 1 (section 7.1.6.1.2).

Pressing the " Down" key will enter the "New/Change Start value of the Output 1 edit" mode.

Pressing " Dp" key will confirm the present value as Start value of the Output 1 and advance to the selection of Elbow value of Output (section 7.1.6.1.3) or Output 2 parameter selection (section 7.1.6.2)



Pressing the " Down" key will not affect the first digit It always remains 0.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in this case to "0".

Enter New / Change Start value of the Output 1, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 4, the value will wrap from 4 round to 0 depending on the set End value of Output.

Pressing the " • Up" key will advance the operation to the next digit and set the second digit, in this case to "0".







Enter New / Change Start value of the Output 1, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0 depending on the set End value of Output.

Pressing the "
Up" key will advance the operation to the next digit and set the third digit, in this case to "0".

Enter New / Change Start value of the Output 1, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0 depending on the set End value of Output.

Pressing the " • Up" key will advance the operation to the "New / Changed Start value of the Output 1" and set the fourth digit, in this case to "0".

New/changed Start value of the Output 1 confirmed.

Pressing the " Down" key will re-enter to the "New / Change Start value of the Output 1".

Pressing the " Dup" key will confirm New Start value of the Output 1 and advance to the selection of Elbow value of Output (section 7.1.6.1.3) or Output 2 parameter selection (section 7.1.6.2)

7.1.6.1.3 Elbow value of output 1

This screen appears only when Elbow function is enabled.

This screen allows the user to set the Elbow value of Output 1 (considerd as DC Current). The Elbow value can be set any value between set Start value of Output and End value of Output.



Pressing the " Down" key will enter the "New/Change Elbow value of the Output 1 edit" mode.

Pressing " • Up" key will set the present value as Elbow value of the Output 1 and advance to the Output 2 parameter selection (section 7.1.6.2).



New / Change Elbow value of the Output 1

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the first digit from 0 through to 2, the value will wrap from 2 round to 0 depending on the set End value of Output.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in this case to "1".









Enter New / Change Elbow value of the Output 1, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0depending on the set End value of 0utput.

Pressing the " • Up" key will advance the operation to the next digit and set the second digit, in this case to "1".

Enter New / Change Elbow value of the Output 1, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0 depending on the set End value of Output.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "0".

Enter New / Change Elbow value of the Output 1, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0 depending on the set End value of Output.

Pressing the "
Up" key will advance the operation to the "New / Changed Elbow value of the Output 1" and set the fourth digit, in this case to "0".

New/changed Elbow value of the Output 1 confirmed.

Pressing the " Down" key will re-enter to the "New / Change Elbow value of the Output 1".

Pressing the " • Up" key will confirm New Elbow value of the Output 1 and advance to the Output 2 parameter selection(section 7.1.6.2).

7.1.6.2 Output 2 parameter selection 7.1.6.2.1 End value of output 2

This screen allows the user to set the End value of Output 2 (considerd as DC Voltage). The End value of Voltage Output can be set up to 10V.



Pressing the " Down" key will enter the "New/Change End value of the Output 2 edit" mode.

Pressing " Dup" key will set the present value as End value of the Output 2 and advance to the Start value of Output selection (section 7.1.6.2.2).











New / Change End value of the Output 2

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the first digit from 0 through to 1, the value will wrap from 1 round to 0.

Pressing the " Up" key will advance the operation to the next digit and set the first digit, in this case to "0".

Enter New / Change End value of the Output 2, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0, if first digit is set to 0.

Pressing the " Dp" key will advance the operation to the next digit and set the second digit, in this case to "9".

Enter New / Change End value of the Output 2, second digit entered, prompting third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "0".

Enter New / Change End value of the Output 2, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the "New / Changed End value of the Output 2" and set the fourth digit, in this case to "0".

New/changed End value of the Output 2 confirmed.

Pressing the " I Down" key will re-enter to the "New / Change End value of the Output 2".

Pressing the " • Up" key will confirm New End value of the Output 2 and advance to the Start value of Output selection (section 7.1.6.2.2).

7.1.6.2.2 Start value of output 2

This screen allows the user to set the Start value of Output 2 (considerd as DC Voltage). Start value of Output can be set up to 20% of set End value of Output.













Pressing the " Down" key will enter the "New/Change Start value of the Output 2 edit" mode.

Pressing " Dup" key will confirm the present value as Start value of the Output 2 and advance to the Elbow value of Output selection (section 7.1.6.2.3) or exit setup menu.

New / Change Start value of the Output 2

(*Denotes that digit will be flashing).

Pressing the " • Down" key will not affect the value of first digit, it is always 0.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in every case to "0".

Enter New / Change Start value of the Output 2, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0, if first digit is 0.

Pressing the " • Up" key will advance the operation to the next digit and set the second digit, in this case to "1".

Enter New / Change Start value of the Output 2, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "0".

Enter New / Change Start value of the Output 2, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0.

Pressing the " • Up" key will advance the operation to the "New / Changed Elbow value of the Output 2" and set the fourth digit, in this case to "0".

New/changed Start value of the Output 2 confirmed

Pressing the " Down" key will re-enter to the "New / Change Start value of the Output 2".

Pressing the " • Up" key will confirm New Start value of the Output 2 and advance to the Elbow value of Output selection (section 7.1.6.2.3) or exit setup menu.

7.1.6.2.3 Elbow value of output 2

This screen appears only when Elbow function is enabled. This screen allows the user to set the Elbow value of Output 2 (considerd as DC Voltage). The Elbow value can be set any value between set Start value of Output and End value of Output.













New / Change Elbow value of the Output 2

(*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the first digit from 0 through to 1, the value will wrap from 1 round to 0 depending the set End value of Output.

Pressing the " Down" key will enter the "New/Change Elbow value of the Output 2 edit" mode.

Pressing " • Up" key will confirm the present value as Elbow value of the Output 2 and exit setup menu.

Pressing the " • Up" key will advance the operation to the next digit and set the first digit, in this case to "0".

Enter New / Change Elbow value of the Output 2, first digit entered, prompting for second digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the second digit from 0 through to 9, the value will wrap from 9 round to 0 depending the set End value of Output.

Pressing the " • Up" key will advance the operation to the next digit and set the second digit, in this case to "5".

Enter New / Change Elbow value of the Output 2, second digit entered, prompting for third digit. (*Denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the third digit from 0 through to 9, the value will wrap from 9 round to 0 depending the set End value of Output.

Pressing the " • Up" key will advance the operation to the next digit and set the third digit, in this case to "0".

Enter New / Change Elbow value of the Output 2, third digit entered, prompting for fourth digit. (* denotes that digit will be flashing).

Pressing the " Down" key will scroll the value of the fourth digit from 0 through to 9, the value will wrap from 9 round to 0 depending the set End value of Output.

Pressing the " • Up" key will advance the operation to the "New / Changed Elbow value of the Output 2" and set the fourth digit, in this case to "0".

New/changed Elbow value of the Output 2 confirmed.

Pressing the " I Down" key will re-enter to the "New / Change Elbow value of the Output 2".

Pressing the " D Up" key will confirm New Elbow value of the Output 2 and exit setup menu.

7.2 Programming via the programming connection and the PRKAB5000 programming cable

Follow the subsequent steps to program the SIRAX BT5200 transducer via the programming connection and the PRKAB5000 programming cable:

Step 1: DIP switch setting

The DIP switches should be configured for the desired measurement output as described in Chapter 7.4.

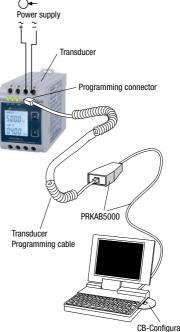
Step 2: Connection

Connect PC \leftrightarrow PRKAB5000 \leftrightarrow transducer according to diagram. Please observe that the power supply for the transducer must be connected prior to programming. The installation position is irrelevant.

Step 3: Programming

Program is effected via a PC, the CB-Configurator software and the PRKAB5000 programming cable.

The PRKAB5000 programming cable assumes the signal level and also provides the galvanic isolation between the PC connection and the programming connection at the transducer.



7.3 Programming via the RS485 (Modbus) interface

Follow the subsequent steps to program the transducer via the RS485 interface and Modbus:

Schritt 1: DIP switch setting

The DIP switches must be configured for the desired output type as described in Section 7.4.

Schritt 2: Connection

Connect the Modbus cable according to the connection diagram in Chapter 11.3. Please observe also the information in the Modbus (RS485) interface definition in Chapter 11.

Schritt 2: Programming

Program SIRAX BT5200 via the Modbus RTU interface and the CB-Configurator software. Please observe the detailed Modbus description in Chapter 11.

To change the output from current to voltage, enter the value "1". To change the output from voltage to current, enter the value "2". (See Section 13.2 and Table 2 Parameter No. 16 & 18 for the details). Connect the power supply to SIRAX BT5200 before programming.

7.4. DIP Switch Setting for Output

To configure SIRAX BT5200 Output, programming method to be adapted along with mechanical switch setting (DIP switch setting on PCB). Type of output (current or voltage signal) has to be set by DIP switch. Remove Sticker for o/p Selection

DIP Switch setting	Type of output signal
ON 1234	load-independent current
ON 1234	load-independent voltage

NOTE: Black portion in above diagram indicate switch position.

8. Service, maintenance and disposal



For devices that have not been opened in the factory, no warranty or guarantee can be assumed.

8.1 Repair work and modifications

Repair work and modifications shall exclusively be carried out by the manufacturer. Do not open the housing of the device. In case of any tampering with the device, the guaranty claim shall lapse. We reserve the right of changing the product to improve it.

8.2 Calibration and new adjustment

Each device is adjusted and checked before delivery. The condition as supplied to the customer is measured and stored in electronic form.

The uncertainty of measurement devices may be altered during normal operation if, for example, the specified ambient conditions are not met.

8.3 Cleaning

The display and the operating keys should be cleaned in regular intervals. Use a dry or slightly moist cloth for this.



Damage due to detergents

Detergents may not only affect the clearness of the display but also can damage the device. Therefore, do not use detergents.

8.4 Disposal



The disposal of devices and components may only be realised in accordance with good professional practice observing the country-specifi c regulations. Incorrect disposal can cause environmental risks.

8.5 Return

All devices delivered to Camille Bauer Metrawatt AG shall be free of any hazardous contaminants (acids, lyes, solutions, etc.). Use original packaging or suitable transport packaging to return the device.



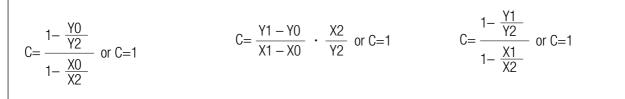
Damage by returning

Damages caused by improper returning, no warranties or guarantees can be given.

9. Technical data

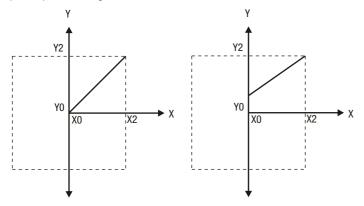
Inputs

1 5A 1 9999A
45 … <u>50 / 60</u> … 65Hz
< 0.6 VA at rated voltage
1.2 * In permanently, 10 * X2 for 3 sec., 5 repetitions in 5 minute intervals. 50 * In for 1 sec. (max. 250 A)
60 300V AC/DC ±5%
\leq 8 VA for 1 output \leq 10 VA for 2 outputs
1)
Load independent DC Voltage or DC Current (Onsite selectable through DIP switche & Programming.)
0/4 20 mA, 0/2 10 V
$0 \le R \le 15V/Y2$
$Y2/(2 mA) \le R \le \infty$
\leq 1.25 * Y2 with current output \leq 60 mA with Voltage output
$<$ 1.25 * Y2 with voltage output \leq 30 V with current output
\leq 1% pk-pk
300 ms.
Output end Value Y2 (Voltage or Current)
0.2*C
Bent characteristics:

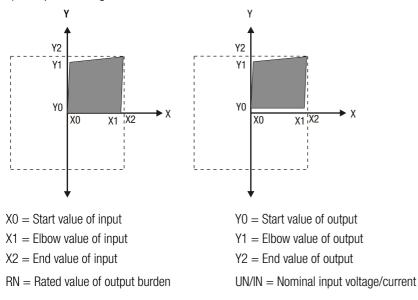


Output characteristics:

1) Example of setting with Linear characteristics:



2) Example of setting with Bent characteristics:



Reference conditions for Accuracy

Ambient temperature: Pre-conditioning: Input Variable: Input waveform: Input signal frequency: Auxiliary supply voltage: Auxiliary supply frequency: Output Load:	23°C +/- 1°C 30 min acc. to EN 60688 Rated Voltage / Rated Current Sinusoidal 50 60Hz Rated Value \pm 1% Rated Value \pm 1% Rn = 7.5 V / Y2 \pm 1% With DC current output signal. Rn = Y2 / 1 mA \pm 1% With DC Voltage output signal.
	$HI = 1277 HA \pm 1\%$ With DC voltage output signal.
Additional Error:	
Temperature influence:	± 0.2% /10 K
Safety	
Protection Class:	II (Protection Isolated acc. to EN 61010-1, EN 61010-2-030)
Protection:	IP 40, housing acording to EN 60529 IP 20,terminal according to EN 60529
Pollution degree:	2
Installation Category:	III, 300V
Insulation Voltage:	50Hz,1min. (EN 61010-1) 3700V, Input versus all other circuits 3700V, Auxiliary supply versus outer surface and output 490V, Output versus output versus each other versus outer surface.
Installation Data:	
Material:	Lexan 940 (polycarbonate), V-0 acc. to UL94, self-extinguishing, non-dripping, free of halogen
Mounting position:	Rail mounting / wall mounting
Weight:	Approx. 0.4kg

Connection Terminal

Connection Element: Permissible cross section of the connection lead:

Environmental

Nominal range of use: Storage temperature: Relative humidity of annual mean: Altitude:

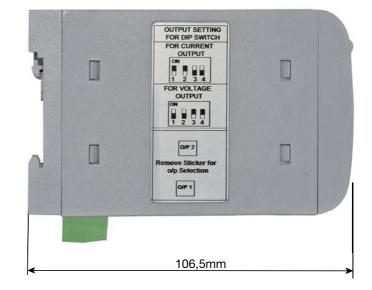
Ambient tests:

EN 60068-2-6:
Acceleration:
Frequency range:
Rate of frequency sweep:
Number of cycles:
EN 60068-2-7:
Acceleration:
EN 60068-2-1/-2/-3

EN 61000-4-2/-3/-4/-5/-6 EN 55011

10. Dimensional drawings





11. Interface Definition Modbus RTU

SIRAX BT5200 supports Modbus RTU protocol (RS485).

The permissible address range for the BT5200 is between 1 and 247. Broadcast Mode (address 0) is not allowed.

The maximum latency time of an BT5200 is 200ms i.e. this is the amount of time that can pass before the first response character is output. After sending any query through software (of the Master), it must allow 200ms of time to elapse before assuming that the BT5200 is not going to respond. If slave does not respond within 200 ms, Master can ignore the previous query and can issue fresh query to the slave.

Conventional Screw type terminal with indirect wire pressure

 \leq 4.0 mm single wire or 2 x 2.5 mm Fine wire

0 °C ... 23 °C ... 45 °C (usage Group II) -40 °C to 70 °C $\leq 75\%$ 2000m max

Vibration ±2g 10 ... 150 ... 10Hz, 1 octave/minute 10, in each of the three axes Shock 3 x 50q 3 shocks in each direction Cold, Dry, Damp heat Electromagnetic compatibility

11.1 Modbus functions

Following code functions are provide:

Function code	Function	Address
03	Read holding registers	40001 to 40040
04	Read input registers	30001 to 30002
16	Presets multiple registers	40001 to 40040

Example of read out measurement

Query:

Device address	Function code	Start address	Nr. of register	CRC
0x01	0x04	0x0006	0x0002	0x91CA

Response:

Device address	Function code	Nr. of databytes	Databytes 0 3	CRC
0x01	0x04	0x04	0x3C52C75D	0xC5CC

Example of set slave address to 2

Query:

Device address	Function code	Start address	Nr. of register	Nr. of bytes	Databytes 03	CRC
0x01	0x10	0x000E	0x0002	0x04	0x40000000	0x67E3

Response:

Devic	e address	Function code	Start address	Nr. of register	CRC
(Dx01	0x10	0x000E	0x0002	0x200B

Exception Cases: An exception code will be generated when BT5200 receives ModBus query with valid parity and error check but which contains some other error (e.g. Attempt to set floating point variable to an invalid value). The response generated will be "Function code" + 0x80.

01	Illegal function	The function code is not supported.
02	Illegal data address	Attempt to access an invalid address or an attempt to read or write part of a floating point value.
03	Illegal data value	Attempt to set a floating point variable to an invalid value.

11.2 Data types

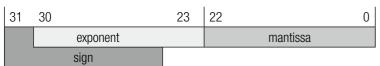
All information are displayed as 32-bit float. There is no representation for floating point numbers in the Modbus specification. But as a matter of principle any desired data structure can be casted to a sequence of 16Bit registers.

The IEEE 754 standard as the most often used standard for the representation of floating numbers is applied.

• The first register contains the bits 16 - 31

- The second register contains the bits $0-15\,$

32-Bit Float (Real32)



							0x3	C52															0xC	75D							
0	0	1	1	1	1	0	0	0	1	0	1	0	0	1	0	1	1	0	0	0	1	1	1	0	1	0	1	1	1	0	1
+	+ Exponent: 120-127=-7						Ma	antis	se=	1.00	1111	000	1010	0010)110	0011	101	011	101=	=1.6	4670	3090	8451	080	3254	249	89				

Measuring value I = $1.64670908451080325424989 * 2^{-7} = 0.012864915 \text{ A}$

11.3 Modbus Register

Address (Register)	Name	Read/ Write	Description Input current (RMS)												
30007	Current	R	Input cur	rent (RMS)											
40001	-	-	-												
40003	Mode selection	R/W	Normal n	This is used to select the Mode of operation. Normal mode = 1 Simulation mode = 2											
40005	-	-	-												
40007	-	-	-												
40009	-	-	-												
40011	Primary current	R/W	This address allows the user to read and write the CT Primary value. The maximum stable value is 9999.												
40013	Secondary current	R/W	This address allows the user to read and write the CT secondary value in range between 1A to 5												
40015	Device address	R/W	V This address is used to set the Device address between 1 to 247.												
40017	RS 485 Set up	R/W	This add	ress is used t	to set the Bau	ud rate, Parit	y and nu	mber of stop	bits.						
			Value	Baud rate	Parity	Stop bit	Value	Baud rate	Parity	Stop bit					
			0	2400	NONE	1	8	9600	NONE	1					
			1	2400	NONE	2	9	9600	NONE	2					
			2	2400	EVEN	1	10	9600	EVEN	1					
			3	2400	ODD	1	11	9600	ODD	1					
			4	4800	NONE	1	12	19200	NONE	1					
			5	4800	NONE	2	13	19200	NONE	2					
			6	4800	EVEN	1	14	19200	EVEN	1					
			7	4800	ODD	1	15	19200	ODD	1					
40019	Password	R	This address is used to set and reset the password. Password protection off = 1 Password protection on = 0												
		W	When active password protection, write first the old password and then the new password. Password protection off = 0000 New Password = 1234 (Valid range of the password is 0000-9999)												
40023	-	-	-												
40025	-	-	-												
40027	Simulation output O/P1	R/W		ress is used t output by wr		ulation outp	ut 0/P1 1	o 10% of out	out by writir	ng 1000 and					
40029	Simulation output 0/P2	R/W	/ This address is used to set the simulation output O/P2 to 10% of output by writing 100 100% of output by writing 10000.												
40031	Analog O/P1	R/W	This add Voltage = Current =	= 1	to set the Ana	alog O/P1 as	s Voltage/	'Current.							
40033	-	-	-												
40035	Analog O/P 2	R/W	This add Voltage = Current =	= 1	to set the Ana	alog O/P2 as	: Voltage/	Current.							
		1	1												
40037	-	-	-												

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