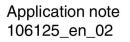
MINI Analog Pro app

Help



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1 Description

Every MINI Analog Pro module provides an option for NFC (Near Field Communication). An additional wireless connection is also available via Bluetooth for the programmable modules.

NFC

On all modules, the NFC antenna is in the module base and is marked with the following symbol.

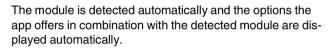
))) NFC)))

Figure 1 NFC logo

To establish a connection via the MINI Analog smartphone app, simply place your smartphone on the MINI Analog Pro module.



Figure 2 Connection establishment



1

The module does not require a supply voltage for NFC configuration. For Bluetooth configuration, however, an external supply is absolutely essential.

Make sure that your smartphone supports NFC or Bluetooth and that these options are activated. The position of the NFC antenna may vary for the different smartphones. Check where the antenna is located first and change the orientation of the smartphone accordingly. As soon as the module has been detected via NFC, you can take the smartphone in your hand again and operate it as usual. The smartphone must only be placed on the module again, if you wish to write a created configuration to the module (see 3.5 on page 12).



Activate the audio function of your smartphone: Often, a useful audible signal can be heard when an NFC connection is detected.

In the case of Bluetooth communication, it is not necessary to place it on the module for detection and transmission purposes.

i	Make sure you always use the latest documentation. It can be downloaded at phoenixcontact.net/products.
i	This document is valid for all products listed in the "Ordering data" on page 4 section.





1.1 NFC technology

Near Field Communication (NFC) is a transmission standard for wireless and contactless data exchange at a close distance. In contrast to Bluetooth or WLAN, for example, NFC is not a permanent point-to-point connection. This means that data transmission starts as soon as a connection is established between the module and the smartphone. As there are restrictions with regard to the amount of data and the transmission speed, the smartphone must not be moved during transmission.

1.2 Bluetooth technology

Bluetooth is a technology for wireless networks with limited range and can be used to connect devices without the need for cables. Bluetooth devices do not need a direct visual or physical connection to communicate. As a result, the connections are significantly more flexible. Bluetooth can be used to transfer data and information between devices.

Each configurable MINI Analog Pro module allows you not only to read data using the Bluetooth adapter (IFS-BT-PROG-ADAPTER, Order No.: 2905872), but also to configure and monitor the module.

You can use the Bluetooth adapter in conjunction with the following devices:

- Android smartphones (Version 4.3 and later)
- Android tablets (Version 4.3 and later)
- Apple smartphones (IOS 6 and later)
- Apple tablets (IOS 6 and later)
- PCs (Windows (32/64-bit) XP, Vista, 7, and 8)

The Bluetooth adapter comprises a device adapter and a PC USB stick. To use this device, you must ensure that your smartphone or tablet is Bluetooth LE enabled.

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2 Ordering data

The app can be used in combination with the following products:

Description	Туре	Order No.	Pcs./Pkt.
Single-channel input loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of analog signals. Input signal = output signal: 0(4) mA 20 mA. Screw connection technology.	MINI MCR-2-I-I-ILP	2901994	1
Single-channel input loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of analog signals. Input signal = output signal: 0(4) mA 20 mA. Push-in connection technology.	MINI MCR-2-I-I-ILP-PT	2901995	1
Two-channel input loop-powered 2-way isolator with plug-in connection tech- nology for the electrical isolation of analog signals. Input signal = output signal: 0(4) mA 20 mA. Screw connection technology.	MINI MCR-2-2I-2I-ILP	2901996	1
Two-channel input loop-powered 2-way isolator with plug-in connection tech- nology for the electrical isolation of analog signals. Input signal = output signal: 0(4) mA 20 mA. Push-in connection technology.	MINI MCR-2-2I-2I-ILP-PT	2901997	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0(4) mA 20 mA, output signal: 0(4) mA20 mA, screw connection technology	MINI MCR-2-I-I	2901998	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0(4) mA 20 mA, output signal: 0(4) mA 20 mA, push-in connection technology.	MINI MCR-2-I-I-PT	2901999	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0 20 mA, output signal: 0 10 V, screw connection technology	MINI MCR-2-10-U	2902000	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0 20 mA, output signal: 0 10 V, push-in connection technology	MINI MCR-2-10-U-PT	2902001	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 4 20 mA, output signal: 0 10 V, screw connection technology	MINI MCR-2-14-U	2902002	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 4 \dots 20 mA, output signal: 0 \dots 10 V, push-in connection technology	MINI MCR-2-14-U-PT	2902003	1
Configurable NAMUR signal conditioner with plug-in connection technology for proximity sensors, floating switch contacts, and switch contacts with resistance circuit. 2 transistor outputs, configurable via DIP switch. Screw connection technology.	MINI MCR-2-NAM-2RO	2902004	1
Configurable NAMUR signal conditioner with plug-in connection technology for proximity sensors, floating switch contacts, and switch contacts with resistance circuit. 2 transistor outputs. Configurable via DIP switch. Push-in connection technology.	MINI MCR-2-NAM-2RO-PT	2902005	1
3-way repeater power supply with plug-in connection technology. HART- transparent, input signal 0(4) 20 mA, output signal 0(4) 20 mA. The de- vice can be used in both isolator and repeater power supply operation. Screw connection technology	MINI MCR-2-RPSS-I-I	2902014	1
3-way repeater power supply with plug-in connection technology. HART- transparent, input signal 0(4) 20 mA, output signal 0(4) 20 mA. The de- vice can be used in both isolator and repeater power supply operation. Push- in connection technology	MINI MCR-2-RPSS-I-I-PT	2902015	1
Configurable potiposition transducer with plug-in connection technology for connecting potentiometers from 0 Ω 100 Ω to 0 k Ω 100 k Ω . Configurable via DIP switch or software. Screw connection technology, standard configuration	MINI MCR-2-POT-UI	2902016	1
Configurable potiposition transducer with plug-in connection technology for connecting potentiometers from 0 Ω 100 Ω to 0 k Ω 100 k Ω . Configurable via DIP switch or software. Push-in connection technology, standard configuration	MINI MCR-2-POT-UI-PT	2902017	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0 10 V, output signal: 0 20 mA, screw connection technology	MINI MCR-2-U-I0	2902022	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0 10 V, output signal: 0 20 mA, push-in connection technology	MINI MCR-2-U-10-PT	2902023	1

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Description	Туре	Order No.	Pcs./Pkt.
Universally configurable 4-way signal conditioner, with switching output and plug-in connection technology for the electrical isolation of analog signals. Configurable via DIP switch or software. Screw connection technology, order configuration.	MINI MCR-2-UNI-UI-UIRO-C	2902024	1
Universally configurable 4-way signal conditioner, with switching output and plug-in connection technology for the electrical isolation of analog signals. Configurable via DIP switch or software. Screw connection technology, standard configuration.	MINI MCR-2-UNI-UI-UIRO	2902026	1
Universally configurable 4-way signal conditioner, with switching output and plug-in connection technology for the electrical isolation of analog signals. Configurable via DIP switch or software. Push-in connection technology, order configuration.	MINI MCR-2-UNI-UI-UIRO-PT-C	2902027	1
Universally configurable 4-way signal conditioner, with switching output and plug-in connection technology for the electrical isolation of analog signals. Configurable via DIP switch or software. Push-in connection technology, standard configuration.	MINI MCR-2-UNI-UI-UIRO-PT	2902028	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0 10 V, output signal: 4 20 mA, screw connection technology	MINI MCR-2-U-14	2902029	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of analog signals. Input signal: 0 10 V, output signal: 4 20 mA, push-in connection technology	MINI MCR-2-U-14-PT	2902030	1
Analog frequency transducer with limit value functionality and plug-in connec- tion technology for converting standard signals into frequency or PWM sig- nals. Configurable via DIP switch or software. Screw connection technology, standard configuration.	MINI MCR-2-UI-FRO	2902031	1
Analog frequency transducer with limit value functionality and plug-in connec- tion technology for converting standard signals into frequency or PWM sig- nals. Configurable via DIP switch or software. Push-in connection technology, standard configuration.	MINI MCR-2-UI-FRO-PT	2902032	1
Universally configurable limit value switch with PDT relay output and plug-in connection technology for switching analog limit values. Configurable via DIP switch or software, screw connection technology.	MINI MCR-2-UI-REL	2902033	1
Universally configurable limit value switch with PDT relay output and plug-in connection technology for switching analog limit values. Configurable via DIP switch or software, push-in connection technology.	MINI MCR-2-UI-REL-PT	2902035	1
3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover for the electrical isolation of unipolar and bipolar analog signals. Input/output configurable via DIP switch. Screw connection technology, order configuration.	MINI MCR-2-UI-UI-C	2902036	1
3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover for the electrical isolation of unipolar and bipolar analog signals. Input/output configurable via DIP switch. Screw connection technology, standard configuration.	MINI MCR-2-UI-UI	2902037	1
3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover for the electrical isolation of unipolar and bipolar analog signals. Input/output configurable via DIP switch. Push-in connection technology, order configuration.	MINI MCR-2-UI-UI-PT-C	2902039	1
3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover, for the electrical isolation of unipolar and bipolar analog signals. Input/output configurable via DIP switch. Push-in connection technology, standard configuration.	MINI MCR-2-UI-UI-PT	2902040	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of unipolar and bipolar analog signals. Input signal: 0 10 V/ \pm 10 V, output signal: 0 10 V/ \pm 10 V, screw connection technology	MINI MCR-2-U-U	2902042	1
3-way signal conditioner with plug-in connection technology for the electrical isolation of unipolar and bipolar analog signals. Input signal: 0 10 V/±10 V, output signal: 0 10 V/±10 V, push-in connection technology.	MINI MCR-2-U-U-PT	2902043	1
Configurable temperature transducer with plug-in connection technology for connecting 2, 3, and 4-conductor resistance thermometers and resistance-type sensors. Configurable via DIP switch or software. Screw connection technology, order configuration	MINI MCR-2-RTD-UI-C	2902048	1

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Description	Туре	Order No.	Pcs./Pkt.
Configurable temperature transducer with plug-in connection technology for connecting 2, 3, and 4-conductor resistance thermometers and resistance- ype sensors. Configurable via DIP switch or software. Screw connection technology, standard configuration	MINI MCR-2-RTD-UI	2902049	1
Configurable temperature transducer with plug-in connection technology for onnecting 2, 3, and 4-conductor resistance thermometers and resistance- ype sensors. Configurable via DIP switch or software. Push-in connection echnology, order configuration	MINI MCR-2-RTD-UI-PT-C	2902051	1
Configurable temperature transducer with plug-in connection technology for onnecting 2, 3, and 4-conductor resistance thermometers and resistance- ype sensors. Configurable via DIP switch or software. Push-in connection echnology, standard configuration	MINI MCR-2-RTD-UI-PT	2902052	1
Configurable temperature transducer with plug-in connection technology for onnecting thermocouples. Configurable via DIP switch or software. Screw onnection technology, order configuration	MINI MCR-2-TC-UI-C	2902053	1
Configurable temperature transducer with plug-in connection technology for onnecting thermocouples. Configurable via DIP switch or software. Screw onnection technology, standard configuration	MINI MCR-2-TC-UI	2902055	1
Dutput loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of unipolar and bipolar analog signals. Input configurable ria DIP switch. Screw connection technology, order configuration.	MINI MCR-2-UI-I-OLP-C	2902060	1
Dutput loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of unipolar and bipolar analog signals. Input configurable ria DIP switch. Screw connection technology, standard configuration.	MINI MCR-2-UI-I-OLP	2902061	1
Dutput loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of unipolar and bipolar analog signals. Input configurable ria DIP switch. Push-in connection technology, order configuration.	MINI MCR-2-UI-I-OLP-PT-C	2902062	1
Dutput loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of unipolar and bipolar analog signals. Input configurable ia DIP switch. Push-in connection technology, standard configuration.	MINI MCR-2-UI-I-OLP-PT	2902063	1
Constant voltage/current source with plug-in connection technology, input roltage: 9.6 V DC 30 V DC. Output voltage: 1.25 V 10 V DC or output current: 2.5 mA 20 mA can be set. Configurable via DIP switch. Screw connection technology	MINI MCR-2-CVCS	2902064	1
Constant voltage/current source with plug-in connection technology, input roltage: 9.6 V DC 30 V DC. Output voltage: 1.25 V DC 10 V DC or output current: 2.5 mA 20 mA can be set. Configurable via DIP switch. Push-in connection technology.	MINI MCR-2-CVCS-PT	2902065	1
Power terminal with plug-in connection technology for delivering the supply roltage to the DIN rail connector. Monitoring of the supply voltages in combi- nation with the fault monitoring module. Screw connection technology	MINI MCR-2-PTB	2902066	1
Power terminal with plug-in connection technology for delivering the supply oltage to the DIN rail connector. Monitoring of the supply voltages in combi- ation with the fault monitoring module. Push-in connection technology	MINI MCR-2-PTB-PT	2902067	1
eed-through terminal block with plug-in connection technology for the trans- nission of signals already electrically isolated. Screw connection technology	MINI MCR-2-TB	2902068	1
ault monitoring module with plug-in connection technology for evaluating and eporting group errors from the FM system and for monitoring the supply voltages. Error reporting via N/O contact. Screw connection technology, standard configuration	MINI MCR-2-FM-RC	2904504	1
Fault monitoring module with plug-in connection technology for evaluating and eporting group errors from the FM system and for monitoring the supply voltages. Error reporting via N/O contact. Push-in connection technology, stanlard configuration	MINI MCR-2-FM-RC-PT	2904508	1
Configurable potiposition transducer with plug-in connection technology for connecting potentiometers from 0 Ω 100 Ω to 0 k Ω 100 k Ω . Configurable via DIP switch or software. Screw connection technology, order configuration	MINI MCR-2-POT-UI-C	2905005	1
Configurable potiposition transducer with plug-in connection technology for connecting potentiometers from 0 Ω 100 Ω to 0 k Ω 100 k Ω . Configurable ia DIP switch or software. Push-in connection technology, order configuration	MINI MCR-2-POT-UI-PT-C	2905006	1
Configurable temperature transducer with plug-in connection technology for connecting thermocouples. Configurable via DIP switch or software. Push-in connection technology, order configuration	MINI MCR-2-TC-UI-PT-C	2905248	1

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Description	Туре	Order No.	Pcs./Pkt.
Configurable temperature transducer with plug-in connection technology for connecting thermocouples. Configurable via DIP switch or software. Push-in connection technology, standard configuration	MINI MCR-2-TC-UI-PT	2905249	1
Analog frequency transducer with limit value functionality and plug-in connec- tion technology for converting standard signals into frequency or PWM sig- nals. Configurable via DIP switch or software. Screw connection technology, order configuration.	MINI MCR-2-UI-FRO-C	2906201	1
Analog frequency transducer with limit value functionality and plug-in connec- tion technology for converting standard signals into frequency or PWM sig- nals. Configurable via DIP switch or software. Push-in connection technology, order configuration.	MINI MCR-2-UI-FRO-PT-C	2906202	1

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3 Function description



3.1 Main menu

When pressing on the menu button at the top-left of the screen, the main menu opens. The main menu can be used to quickly and easily access the major functions of the app. You can change to the module selection list, connect to the module via the Bluetooth adapter, call the file manager including documents and configurations stored, change the language, open the help or call contact information.

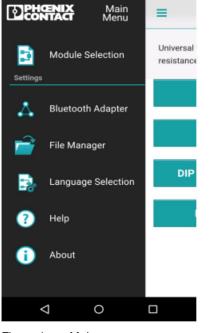


Figure 4 Main menu

3.2 Establishing a Bluetooth connection

Search for Bluetooth-enabled devices in the surrounding area using the "Find new adapter" button.

A message window appears which asks whether you would like to connect to the corresponding adapter.

+	Bluetooth Adapter
Bluetoot	h Adapter
	Find new adapter
	gured adapter '00:A0:45:91:E7:24' is dicsonnected.
	Connect



Figure 5

Searching for a new adapter

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Confirm the message with "OK".



Figure 6 Confirming the connection

The connection allows you to access the monitoring data (see page 15). If there are several Bluetooth adapters in the area, a connection is established with the closest one.



You can only establish the Bluetooth connection between your mobile end device and the MINI Analog Pro module using the MINI Analog Pro app. You cannot establish a connection via the Bluetooth menu on your smartphone or tablet.

3.3 Accessing module information

For each MINI Analog Pro module, the required information can be accessed from the app. You can always call basic information, package slips, data sheets, and block diagrams directly and store them on your smartphone. Modules providing this option are marked with the following symbol.



Figure 7 Symbol for accessing module information

If a connection has been established between the smartphone and a MINI Analog Pro module providing the information access function, the corresponding module start screen is automatically displayed.





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When pressing on the "Module Information" button, different documents are available. Package slips and data sheets can be downloaded as required.

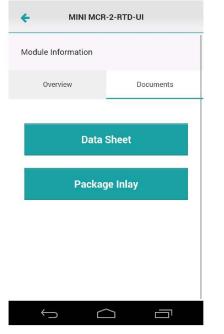


Figure 9 Module information - data sheets and package slips

The download of block diagrams and short descriptions is always up to date.

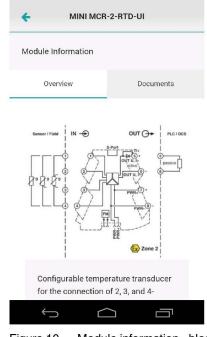


Figure 10

Module information - block diagram and short description



Please be aware that additional costs may be incurred when downloading data via a mobile phone network.

Downloaded documents can be stored on the smartphone and processed and transmitted using the corresponding programs.

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3.4 Executing the DIP switch adjustment aid

In addition to accessing module information, a DIP switch adjustment aid can be executed using the app. The adjustment aid can be used to set a configuration; the required DIP switch settings will be displayed. It is also possible to check already set DIP switch configurations. Modules providing these options are marked with the following symbol.



Figure 11 Symbol for the DIP switch adjustment aid

If a connection has been established between the smartphone and a MINI Analog Pro module that can be configured via DIP switches, the corresponding module start screen is automatically displayed. In this case, you can either access the module information (see 3.3 on page 9) or call the DIP switch adjustment aid.

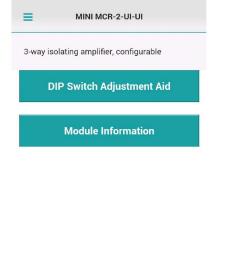
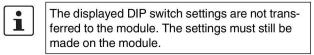


Figure 12 Start screen - access to information and DIP switch adjustment aid

The DIP switch adjustment aid can either be used to check already set DIP switch settings or to specify a configuration and display the required DIP switch configuration.



÷	MINI MC	R-2-UI-UI	ĺ
DIP Switch	n Adjustment	Aid	
DIP Sw	ritches	C	onfiguration
	s	1	
	1	0	
	2	0	
	3	0	
	4	0	
	5	0	
	6	0	
		~	
(
Jaura 10	חוח	witch	otting aid

Figure 13 DIP switch setting aid - DIP switches

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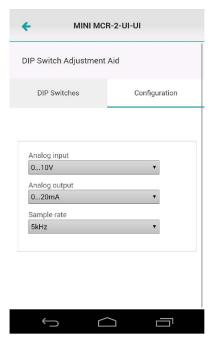
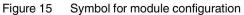


Figure 14 DIP switch setting aid - configuration

3.5 Module configuration

For modules that can be parameterized via software, the module can be completely configured in addition to accessing information and executing the DIP switch adjustment aid. This is possible with a Bluetooth or NFC interface. Modules that can be parameterized via software are marked with the following symbol.





If a connection has been established between the smartphone and a MINI Analog Pro module that can be configured via software, the corresponding module start screen is automatically displayed. You can either access the module information (see 3.3 on page 9), call the DIP switch adjustment aid (see 3.4 on page 11), call the monitoring area (see 3.6 on page 15) or parameterize the module directly with all its functions.

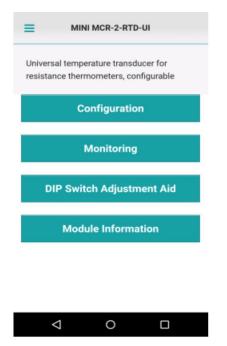


Figure 16 Module configuration start screen

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After calling the configuration screen, several tabs are available to view or define general information, e.g., the name of a measuring point, and to parameterize the input and the output.



MINI MCR-2-RTD-UI		
FW-Version:		
	256	
Serialnumber:		
	0	
Tag number:		
User message:		

Figure 17 Module configuration - general information



Figure 18 Module configuration - input

(MINI MCR-2-RTD	-UI	
Configuratior	1		
Global	Analog input	,	Analog output
Configurati Analog outpu			
420mA		۲	
Error handlin	g:		
According N	IE43 upscale	۲	4
Analog outpu	it range start:	4	mA
Analog outpu	it range end:		
	it runge end.	20	mA
Overrange:			
		21,5	mA 🛷
\hookrightarrow	\bigcirc		-

Figure 19 Module configuration - output

To write a created configuration to a module, press the button at the top-right of the screen. The communication menu opens.

+	N	/INI M	CR-2-R	TD-UI			
4	Save	e to de	vice				
1	_ Load	d from	device				
	Save	e to file	2				F
Ê	Load	d from	file:				
	RTD	_confi	guratior	1.acc			
420	JmA			Y			,
Error	handling						
	ording NE		cale	•		1	
Analo	og output	range s	start:	,			
	5 1	,		4	mA		
Analo	og output	range e	end:				
				20	mA		
Overr	ange:						
				21,5	mΑ	1	
÷			\bigcirc			(
Figure	20	Cor	nmur	nicatio	on m	enu	

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The "Save to device" button offers an added level of security by asking you to confirm whether you want to save the configuration to the device.



Figure 21 Confirmation of saving configuration to device

Pressing "OK" to confirm allows you to select the transmission method.

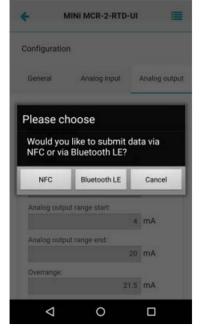


Figure 22 Selecting the transmission method

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The created configuration is then written to the module.



For transmission via NFC, the smartphone must be placed on the module (see Figure 2 on page 1). In case the transmission cannot be completed, the previous configuration that is stored on the module will be restored.

i

Only valid configurations are transmitted and the configuration must also be adequate for the module. Completion of transmission will be displayed.

It is also possible to store the created configuration on your smartphone and send it via e-mail.

Besides that, you can read the configuration stored on the module or reload configurations already created.

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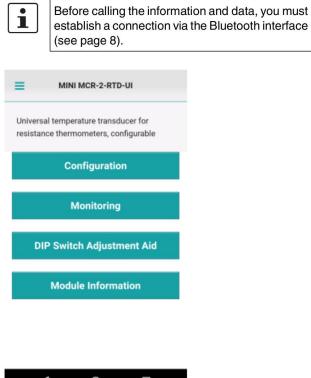
Configurations that have been created on a PC using the ANALOG-CONF software can also be opened (e.g., as an e-mail attachment) and processed on your smartphone using the app. Likewise, configurations that have been created on the smartphone can be opened and processed on a PC.

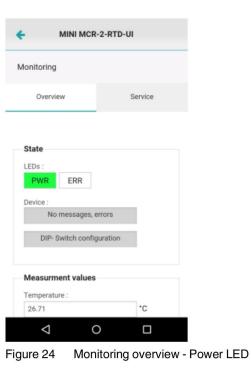
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3.6 Monitoring

In addition to calling the module information, DIP switch adjustment aid, and module configuration, you can also call/ monitor the current behavior/status of the module.

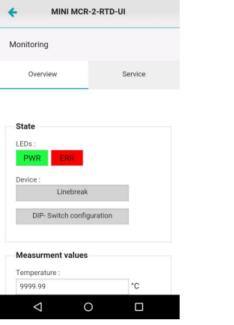




\bigtriangledown	0	

Figure 23 Monitoring start screen

The overview shows the module status along with the PWR (power) and ERR (error) LEDs, which display the energy supply and error messages. It also shows you the current measured values.



Monitoring overview - Error LED Figure 25

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DIP- Switch configuration	
Measurment values	
Temperature :	
26.74	*C
80.12	۴F
Sensor resistor :	
110.40	Ω
Sensor resistor :	
207.66	μΑ
Output current :	
13.37	mA

Figure 26 Monitoring overview - Current measured values

You can simulate device behavior under "Service". This allows you to choose between percentage values and absolute values. You can reset the device if required once the simulation is complete. You can also see the DIP-switch settings along with what they mean.

MINI MCR-2-RTD-UI					
Monitoring					
Overview	Service				
Simulation					
Percentages	•				
	0 %				
Set	value				
Modul					
R	eset				
< <					

Figure 27 Monitoring service - Simulation

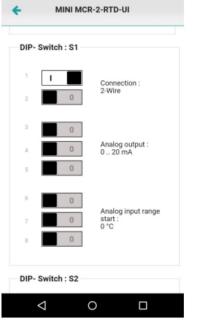


Figure 28 Monitoring service - DIP switch

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3.7 File manager

A clear overview of stored configurations as well as stored package slips and data sheets listed according to the module type can be found in the file manager. All files can easily be sent via e-mail.

+	File Manager		3		
File Manaç	ger				
	R-2-RTD-UI(-PT)(-	·C)			
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RTD_configuration.acc			×		
MINI MCF	R-2-TC-UI(-C)				
TC_configuration.acc			×		
¢	\Box		ק		
Figure 29 File manager					

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