

Product Information MPI-200

CONTROLS

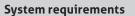
Programming adapter MPI-200

Application/specified usage

 Universal programming of Anderson-Negele sensor in 2-wire and 4-wire technology

Scope of supply

- · Programming adapter MPI-200
- · CD with PC software
- · Adapter MPI-200-F for connecting to the NSL-F electronic unit



- · Operating system: WinXP (SP3 and higher), Vista (SP1 and higher), Win7
- · Processor: min. 1 GHz CPU
- · Available hard disk space: min. 10 MB (.NET is already installed)
- · Windows installer: 3.1
- · .NET version 4.0
- · USB: 1 vacant USB interface USB 2.0
- · Other requirement: CD drive for program installation
- · Access rights: Administrator rights for installation

Installing the software

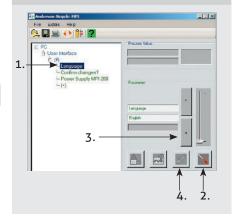
- 1. Insert the CD included with the MPI-200 into the CD drive
- 2. Double-click on the "Anderson-Negele Installer.msi" file to start the installation
- 3. Follow the instructions of the installation wizard
- 4. After the installation is finished, the following symbol appears on the desktop 🔊

Changing the user interface language

The software is factory-provided configured to English. It can be changed as follows:

- 1. Open the "Language" parameter
- 2. 📔 Press the button
- 3. Select the language using the arrow buttons
- 4. Save the setting by pressing the 🜌 button
- 5. The interface now refreshes in the new language

MPI-200 user interface



Programming adapter MPI-200

Electrical connection | Power supply

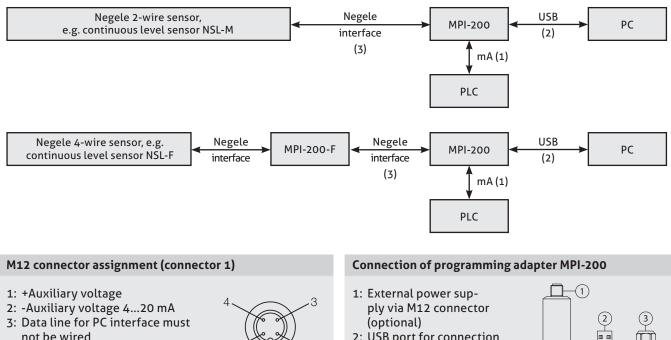
Connecting the sensor

- Connect the sensor to the PC via the USB port. 1.
- The graphic user interface now refreshes and shows the sensor (e.g. level switch 2. NSL-M).

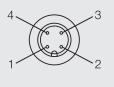
Advice

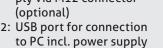
If the sensor is not displayed, check the power supply selection and change it if necessary.

Signal flow during parameterization

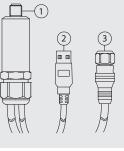


4: Data line for PC interface must not be wired





if not supplied externally 3: Connection cable to sensor or adapter MPI-200-F



Supply voltage/power supply

The equipment is delivered with the programming adapter set to a power supply from the PC. However, it is also possible to wire the programming adapter into the system and program the sensor afterward. To do this, the parameter for the power supply must be changed to "External supply". Proceed as follows:

- Select the "Power supply MPI-200" parameter 1.
- Press the button 📓 and change the power supply parameter from 2.

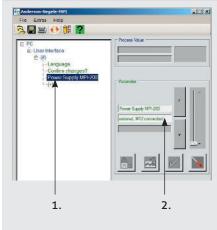


"External, M12 connected" using the arrow button

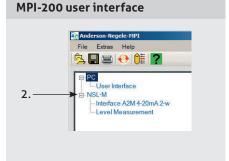
to

Press the button 📝 to save the change. The mask is refreshed 3.

MPI-200 power supply



2



Advice

3

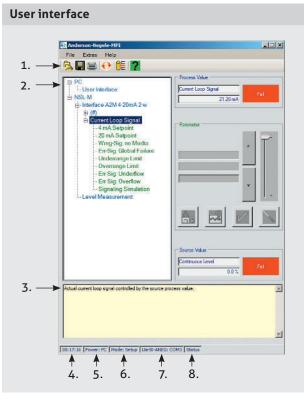
If the sensor is supplied from the control center/PLC, ensure that the power supply is set to "external, M12 connected". A supply from the PC would otherwise be superimposed on the 4...20 mA output signal and lead to an incorrect measuring signal.

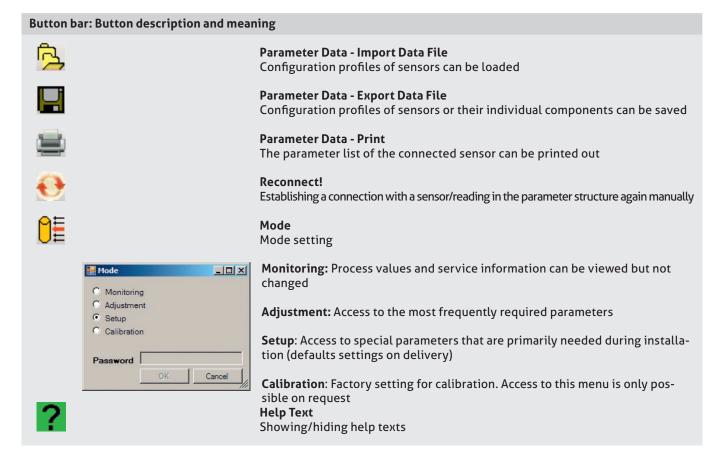
Maximum display

- 1: Button bar
- 2: Parameter structure
- 3: Details on the individual settings or parameters, if activated(? button)

Status bar

- 4: Operating time since start of software
- 5: Power supply
- 6: Mode
- 7: MPI-200 connection to PC
- 8: Status

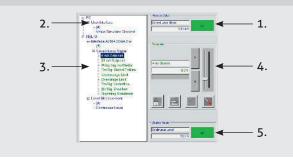




Graphic user interface

Basic structure

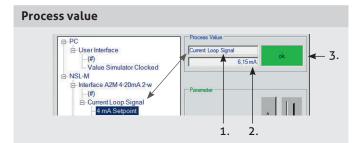
- 1: Data on current process value
- 2: Changeable PC parameters
- 3: Changeable sensor parameters, e.g. level switch NSL-M
- 4: Buttons to change parameter setting
- 5: Data on current source value



Note on parameter structure

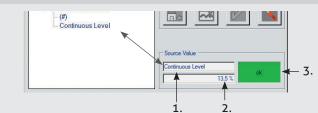
General parameters: Clicking on this symbol opens a submenu that displays device-specific parameters not assigned to a specific process value.

When the mode is changed, or depending on the settings of the individual parameters, it is not possible to select other parameters or to change the parameters. For this reason, the software makes it impossible to open other submenus at the same time.



Source value

User interface



Current process value:

1: Name

Advice

- 2: Value with physical unit
- 3: Status display depending on displayed process value

1: Name

Current source value:

- 2: Source value with physical unit
- 3: Status display depending on current source value

input value for further processing of the process value

The status displays always relate to the current processing with correspondent settings of the values being displayed. The status may therefore vary. In this case, check the respective settings and readjust them if necessary.

Buttons in the "Process value" area				
	Change parameter: Make the parameter setting			
	Default parameter setting: The current setting is discarded and the parameter is reset to the default setting			
~*	System parameter suggestion : The parameter is set to a system suggestion (described in helpful information) and the currently displayed parameter is adopted (e.g. 4 mA for a mA setpoint)			
	Save parameter: The manually created setting is adopted and the display returns to the main menu			
×	Discard parameter : The setting is not adopted and the display returns to the main menu			

Setting a parameter

CONTROLS

1st step

5

- · Select the parameter in the path (e.g. Language)
- As soon as the parameter is selected, it automatically appears in line 1 of the parameter field
- The current setting is displayed in line 2 (e.g. German)

2nd step

- · 📕 button is pressed
- The left side of the main menu (user interface) becomes inactive. This can be seen by the inactive navigation path and the active buttons on the right. All of the following settings are now made on the right.

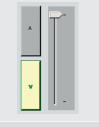
3rd step

Set the desired parameter value The following options are available:

a: Manual entry

Parameters that can only be set to fixed values: By pressing the arrow buttons.





Only values that are greater than the currently displayed value are possible

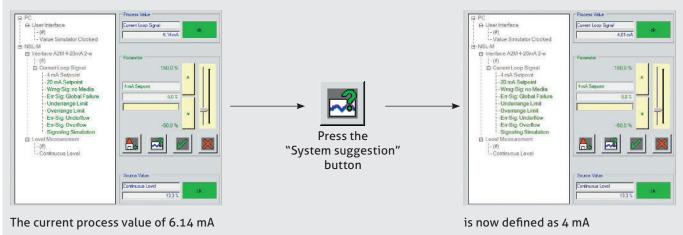
Advice

Only values less than the currently displayed value are possible

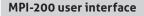
Values greater than or less than the currently displayed value are possible

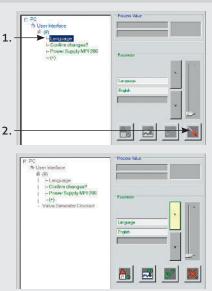
b: Accepting a system suggestion

Parameters that are set directly via the application: by accepting a system suggestion. (e.g. level switch, a tank is filled to a certain height.)

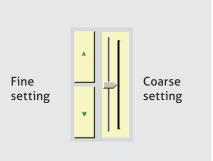


A change in the parameter value has an immediate effect on the corresponding sensor function. If the changed parameter value is to be retained permanently, close the change mode using the "Save parameter" button. Leaving the menu with the "Discard parameter" button resets the parameter to its value before the change.





Function of arrow buttons



6

Printing and/or exporting parameters

Depending on the activation of a button in the button bar (see also page 3) or using the submenus described below, the parameter settings can be printed out in a list, duplicates of the list can be created or the parameter data of a sensor can be saved and copied to other identical sensors.

Submenu items

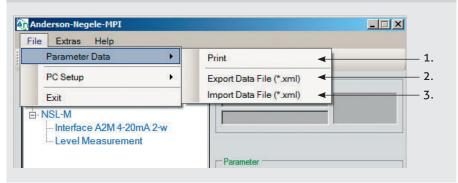
- 1: Print the parameter list directly
- 2: Save parameter data set on the PC
- 3: Load the saved parameter data set from the PC to the sensor

Calling up submenus

5

1

7



Selection options

In the next step in each submenu, you can select which parameter families should be saved or printed (1.).

Additional input fields are available (2.) to assign a parameter list or a data set to a particular sensor/unit.

The serial number is a mandatory field; all other parameters are optional. These optional fields show the information of the sensor that was processed last. Unless this information is changed or deleted, it will also be printed out and saved.

After the language and the printer are selected in the option field (3.), the process can be completed by clicking the "OK" button.

Export function of the parameter list

After the print menu is opened and the corresponding data are entered, a paper printout can be created. To make sure you always have a copy of the parameter settings available in the form of a list (e.g. for quality assurance), it is recommended that you save the parameter list in .xml format in addition to printing it out.

Export/import of the parameter list

The import and export function can be used to load parameter settings onto another, identical device. This function can be used to store parameter data sets externally on the PC and to load them again when needed.

Information

The exported xml file can be saved locally on the PC or on a server and can be distributed/sent by e-mail or USB stick. This does not require special database or programming knowledge. The data is saved in the Microsoft Windows directory structure. The default file name depends on the entries in the serial number and TAG number fields. However, it can be changed or expanded manually if required. This import function can be used to load the xml file and upload it onto a sensor.

	ıt		
7: PC\User Interfac			
3; NSL-M\Interface 0; NSL-M\Level Me			
Document			
Serial number	1234567890	Mounting unit	TEST1
Measuring point	A1B2C3	TAG number	5555
Parameters changed by	John Doe	Parameters change date	11/20/2013 11:35 AM
Option			
option	English]	Extended Print
Language		75	
	FreePDF		
Language	FreePDF		

7

Troubleshooting						
Problem	Check	Solution				
	Are the MPI-200 and the sensor con- nected correctly?	Check the cabling.				
	The program should automatically de- tect that a device has been connected or disconnected. If not, this function can be manually activated.	Clicking on the "Reconnect" button prompts the program to read in the device structure again.				
The device does not appear in the	If the USB connection was detected by the operating system, the COM no. appears in the bottom status line under "Uart:"? Uart: COM3	Disconnect the USB cable from the PC and reconnect it.				
parameter structure	If the USB driver was correctly in- stalled, the adapter is listed in the Device Manager. Anschlüsse (COM und LPT) USB Serial Port (COM3)	If the system asks for a manufacturer CD, please insert the supplied CD and specify the "FTDI" path of the CD drive.				
	Is an external power supply is connec- ted to the M12 connector of the MPI or is the "Power supply MPI-200" parame- ter set to "PC"?	Set the appropriate power supply.				
Error message when the software is started	Is .NET 4.0 or higher installed on the PC?	Install .NET from the supplied CD, path "NET4.0".				
Error message "The COMx connec- tion does not exist"	Was the MPI-200 connected just befo- re the program was started? (The operating system detects the USB device while the program is being started.)	Start the program before connecting the MPI-200 or wait until the ope- rating system has detected the USB device.				
Editing buttons are inactive	Depending on the parameter, some functions may be blocked or una- vailable. In this case, the buttons are deactivated.					
Not all process values or parameters appear in the menu tree	Is the mode set as required? Modus: Setup	Set the mode to the required appli- cation. Depending on the setting, certain modes may be password protected.				
"Load/save PC settings" menu item	Only the settings for the PC user inter- face are stored on the hard disk.	In a later software version, it will also be possible to save and load the parameters of a connected device.				

Transport/storage

- · Do not store outside
- Store in an area that is dry and dust-free
- Do not expose to corrosive media
- Protect against solar radiation
- · Avoid mechanical shock and vibration
- Storage temperature -40...+85 °C
- Relative humidity maximum 98%

Cleaning/maintenance

- In case of using pressure washers, dont't point nozzle directly to electrical connections!



Applicable directives:

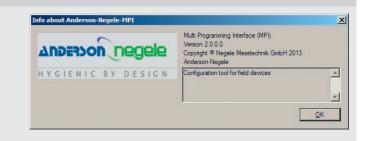
Note on CE

Electromagnetic Compatibility Directive 2014/30/EU Compliance with the applicable EU directives is identified

by the CE label on the product. · The operating company is responsible for complying with the guidelines applicable to the entire installation.

Information on the installed software version

Click on "Help > Info" in the main menu.



Order designation MPI-200 Programming adapter for setting parameters of Anderson-Negele sensors with 2-wire and 4-wire technology, incl. PC software and adapter MPI-200-F MPI-200-F **MPI-200-F** Adapter for retrofitting the MPI-200 for use with NSL-F

MPI-200-F



50024 / 2.1 / 2019-10-07 / YG / EU NEGELE MESSTECHNIK GMBH

Raiffeisenweg 7 87743 Egg an der Guenz Adapter MPI-200-F can be used to connect the electronic unit of an Anderson-Negele 4-wire sensor (e.g. NSL-F) and the MPI-200.

NSL-F Simple User Interface



Phone +49 (0) 83 33 . 92 04 - 0 Fax +49 (0) 83 33 . 92 04 - 49 sales@anderson-negele.com

Tech. Support: support@anderson-negele.com Phone +49 (0) 83 33 . 92 04 - 720



8



· Compliance with the applicable regulations and directives is mandatory.

Sensors and process connection must be clean and must

not be contaminated with hazardous media and/or heat-

conductive paste. Note the cleaning information! · To avoid damage of the equipment, use suitable trans-



Disposal

Reshipment

port packaging only.

Standards and guidelines

- · Electrical devices should not be disposed of with household trash. They must be recycled in accordance with national laws and regulations.
- Take the device directly to a specialized recycling company and do not use municipal collection points.