

Product Information MPU-P 9701 **CONTROLS**

Programming Adapter MPU-P 9701

Application / Specified Usage

- Configuration of internal temperature transmitter for TFP temperature series type: **MPU-4**, **MPU-4 (B)**, **MPU-H** and **MPU-M (B)**
- Configuration of internal transmitter **MPU-4 (B)** type of level switch NFP series

Authorizations



Functional description

The programming adapter **MPU-P 9701** is a handy configuration tool for the temperature transmitter with 4...20 mA output signals. The **MPU-P 9701** has a cable connection which allowed a connection to a USB-Port of a standard PC. The other cable connection is leading to the transmitter.

Programming adapter MPU-P 9701



Features

- The **MPU-P 9701** has an integrated display for monitoring of the product configuration in case the **MPU-P 9701** is brought to a remote product location. The push buttons are for scrolling the display data and store/load of data to/from the transmitter.
- The product parameters can be handled in the dedicated software.
- Field configuration with battery operation possible

MPU-P 9701 included in delivery carrying strap, software, cables



Provided accessories

- USB cable
- Transmitter cable
- CD with software and documentation

Options

- Adaptercable for connection via M12 plug: HSG-M12-TEST

Technical data MPU-P 9701		
Temperature ranges	ambient storage	0...50 °C -10...+70 °C
Weight		200 g
Dimensions	l x w x h	165 mm x 50 mm x 30 mm
Electrical connection	external supply internal supply	via USB-Port NiMH 2,4 V, 450 mAh accumulator
Protection class		IP 42

Installation advice for PC driver software

1. **Warning:** Do not connect the MPU-P 9701 to your PC before the installation of the driver software. The MPU-P 9701 needs installation of a special USB driver which is included in the software package.
2. Quit all programs and insert the CD.
 - The CD will start an automatic installation.
 - If your autorun function has been disabled the installation should be done manually. Select the folder "NegeleProgram_Package" at the CD and run the exe file.
3. During installation you will be prompted for:
 - User rights for the software
 - Folder name for the program installation
4. After the installation the program will start automatically.
5. Open the Help/Contents in the program and follow the instructions very carefully.

Hardware

1. Direct configuration mode (Programming adapter is connected to transmitter and PC):
In this mode the programming adapter is connected to and supplied from a PC's USB port. The product is connected to the product cable and the MPU-P 9701 is acting as a signal converter. The integrated display and the push buttons have no function.
2. Remote configuration mode:
The MPU-P9701 is disconnected from the PC and brought to the product site. The internal rechargeable battery supplies the MPU-P 9701.
 - Prior to the disconnection from the PC the product configuration data have been stored from the PC software to the MPU-P 9701.
The transmitter will be connected with the programming adapter. Then it would be possible transferring data, stored on the adapter, by uploading to the transmitter.
 - At a remote site the MPU-P 9701 can be used for control of the actual product configuration. The integrated display shows the configuration details. The buttons are activated for scrolling the data.

Charging of battery

- **Warning:**
Do not connect the programming adapter MPU-P 9701 to the PC before the USB-driver has been installed!
- Connect the MPU-P 9701 to your PC to insure that the battery will be recharged.
- The battery will be discharged if the MPU-P 9701 is not connected to a PC for some time.
- It takes 16 hours to fully charge the MPU-P 9701.
- When receiving the MPU-P 9701 it may be necessary to charge it before use.

Advice

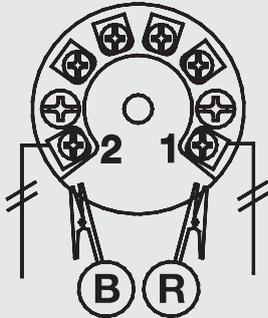
The MPU-P 9701 is not designed to interface with HART or Profibus-PA signals. To be able to configure Profibus-PA products, a corresponding interface unit is needed (e.g. included in delivery of PLC).

Advice

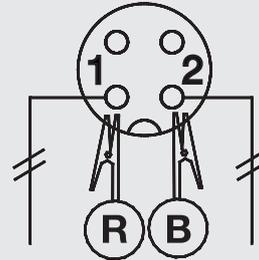
It is not possible to operate more than one MPU-P 9701 per PC at the same time.

Warning

Disconnect the power supply of the transmitter at the TFP- respectively NFP-sensor to the product before connecting the MPU-P 9701.

Connection MPU-4, MPU-4 (B), MPU-H

R: red clip (+supply)
B: black clip (-supply)

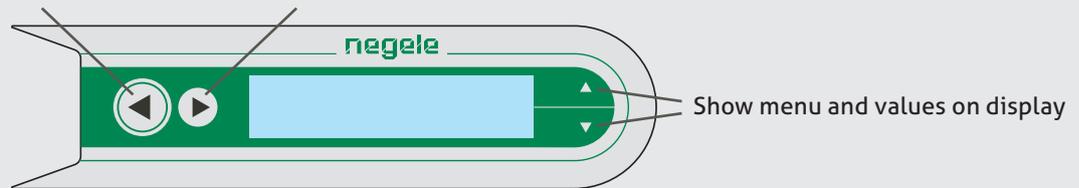
Connection via pins of the M12-plug of MPU-M (B)

R: red clip (+supply)
B: black clip (-supply)

Button functions MPU-P 9701

Write data to transmitter

Read data from transmitter

**Menu MPU-P 9701**

Press \blacktriangle simultaneously to enter the internal operation menu containing e.g. Teach-in and Autozero functionalities

- Press \blacktriangle / \blacktriangledown to browse the internal operation menu
- Press \blacktriangleleft to access submenu of current operation menu point
- Press \blacktriangleright to return from submenu to operation menu

Reset

If you don't want to change every value individually within the PC software, then press \blacktriangleleft and \blacktriangleright simultaneously for 5 seconds. This will reset the programming adapter.

Advice to EMC

- The device agrees to following standards:
EMC directive 2004/118/EC.

Transport / Storage

- Use suitable transport packaging only to avoid damage of the equipment!
- No outdoor storage
- Store dry and dust free
- Not exposed to corrosive media
- Protected against solar radiation
- Avoiding mechanical shock and vibration
- Storage temperature -10...+70 °C
- Relative humidity maximum 90 %

Disposal

- This instrument is not subject to the WEEE directive 2002/96/EC and the respective national laws.
- Pass the instrument directly on to a specialised recycling company and do not use the municipal collecting points.

Order code

MPU-P 9701 Programming adapter for MPU-4, MPU-4 (B), MPU-H, MPU-M (B)

Overview Transmitters that can be programmed with the MPU-9701

			
Type	MPU-4 (also version B)	MPU-H	MPU-M (version B from calendar week 13 / 2010)
suitable for sensors with wiring head	Ø 50 mm, Ø 55 mm (DIN-B housing)	Ø 50 mm, Ø 55 mm (DIN-B housing)	Ø 18 mm
Output / Signal	analog 4...20 mA 2-wire	analog 4...20 mA 2-wire, HART communication	analog 4...20 mA 2-wire
Measurement range	Range free programmable by MPU-P 9701 and software	Range free programmable by MPU-P 9701 and software	Range free programmable by MPU-P 9701 and software

Notes