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SK EPG-3H

Part number: 275 281 026

EEPROM Programming Device

Scope of supply

1 x	Module	SK EPG-3H
1 x	Connection cables	

Field of use

The SK EPG-3H programming device is used as an interface between the plug-in EEPROM ("memory module") and the "NORD CON" parameterisation software for Windows© PCs. This programming device enables:

– Saving of data records from the memory module,
– Editing of individual parameters,
– Loading of saved data records into the memory module
– Conversion of the saved data record into a pdf file
– Comparison of the saved data record with an offline data record.

Frequency inverter assignment

Permissible frequency inverters (FI)		FI size	FI power
SK 2xxE-…	For all devices	For all sizes	For all powers

EEPROM (Memory Module)	Frequency inverter hardware status		Remarks
Type 1	AAA		Without labelling
Type 2	EAA		Labelling with raised marking: "II"

Technical Data

Temperature range	0 … 40°C		Type	Handheld
Protection class	IP54, IP20 on plug		Dimensions	
Weight	approx. 0.2 kg		L x W x H [mm]	120 x 75 x 25

Operation

Step	Description	Comments
1	Ensure that the programming device in not switched on.	
2	Connect the programming device to the USB port (USB 2.0 or higher) of the PC using the enclosed cable.	
3	Start NORD CON	
4	Plug the memory module into the opening provided in the programming device (allow to fully engage).	
5	Switch on the programming device	
6	NORD CON: Search for connected devices	
7	When the programming device or the memory module is ready for operation this is indicated in the device overview by the label **SK 2xxE EPG** in status "Ready for switch-on".	
7.1	To edit individual parameters: Open the parameterisation window (parameterise device)	
7.2	To transfer a data set from a PC to the memory module: "Parameter download to device"	
7.3	To transfer a data set from the memory module to a PC: "Parameter upload from device"	
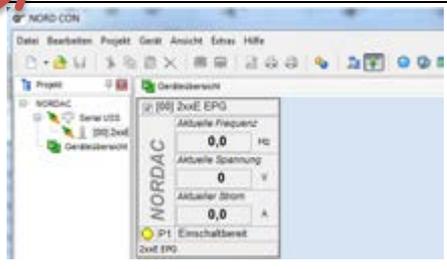
Step	Description	Comments
8	As with direct inverter parameterisation, features such as database comparison or printout of the parameter list are available.	
9	Switch off the SK EPG-3H The memory module can now be removed from the programming device for further use. Start with Step 4 again if a further memory module is to be programmed.	
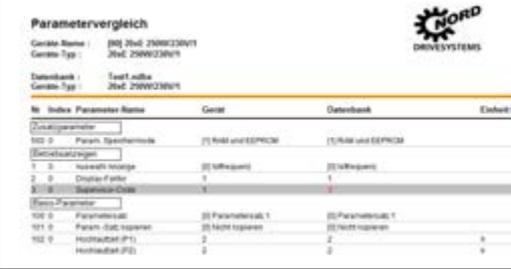
NOTICE	Memory Module

Only plug in or disconnect the memory module from the programming device if the programming device is switched off. Otherwise the memory module and the SK EPG-3H may be damaged. In addition, communication errors may occur during the operation of NORD CON.

Conditions for operation

Windows© PC with NORD CON software version 2.1 or higher

NORD CON control and parameterisation software is required for processing and managing data. The "EPD" installation file is provided on the CD which is supplied with the frequency inverter and the latest version can be downloaded free of charge from our website.

http://www2.nord.com/cms/de/documentation/software/software_detail_14554.jsp

USB hardware detection driver for SK PAR-3H and SK EPG-3H

The USB driver is also saved on the PC by installation of the NORD CON 2.0 software. This USB driver is valid for the ParameterBox SK PAR-3H and the parameterisation device SK EPG-3H. The driver can also be installed separately.

1. Download the driver from:
   http://www2.nord.com/cms/de/documentation/software/options/NORDAC_Options.jsp
   and save it on a hard drive.
2. Connect the SK EPG-3H to a USB port (USB 2.0) with the enclosed cable.
3. Installation of the device is performed automatically
   (if necessary, search for new hardware under "Windows$^{©}$ Device Manager)
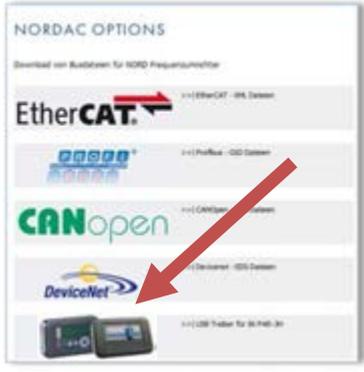
Indication of operating status

The operating status of the SK EPG-3H programming device is indicated by 2 front-mounted LEDs.

DE - red	DS - green	Meaning

Off	Off	• Device not ready
		  – Not connected
		  – No driver (Windows) installed
		• EEPROM initialisation phase

On	On	• Boot up sequence running
Off	On	• Device ready for operation, no error
Off	Flashing (3Hz)	• The data record of a Type 2 memory module is being transferred to a Type 1 memory module
Flashing (8x)	Off	• Parameter loss - data transfer to memory module has failed • Programming device started without memory module • Memory module Type 1 detected. File format will be adjusted. Ready after switching on again.

FAQ SK EPG-3H operational problems

Fault	Possible cause	Remedy
NORD CON cannot find a device	• USB device driver not installed • Incorrect baud rate set in NORD CON • Incorrect COM port selected in NORD CON	• Install driver • In Tools → Communication settings: set 38400 Baud • Set the correct COM port in Extras → Communication settings (comp. with Windows© Device Manager) • Close NORD CON and restart
SK EPG-3H and NORD CON report "Parameter loss"	• Memory module has been removed or is not correctly plugged in to the programming device	• Disconnect the SK EPG-3H from the PC, correctly insert the, memory module and restore the connection.
Data set in the memory module is unchanged after writing	• Incorrect memory module. • Data transfer interrupted	• Use the correct type of memory module • Repeat the data transfer.

Additional information

- The programming device uses firmware version **V2.0** and is intended for the processing of data for Type 2 memory modules. The Type 2 memory module is used in frequency inverters with hardware status **EAA** and above.

  If a Type 1 memory module (from frequency inverters up to hardware status **<EAA**) is to be copied or processed, the firmware must be adapted to the status **V1.4 R3**. Please contact our Technical Support (☎ ++49 4532 289 2515).

- In comparison with a Type 1 module, the Type 2 memory module manages additional parameter groups. These essentially include parameters which are necessary for the operation of synchronous motors or which relate to the PLC.
- If the data from a Type 1 memory module are copied to a Type 2 memory module, all "unknown" parameters are set to the factory settings.
- If the data from a Type 2 memory module are copied to a Type 1 memory module, only the parameters for which there is space on the Type 1 memory module will be copied. This state will be indicated by the parameterisation device (LED "DS Green" flashing).
- Verification of a data record which has been loaded to the EEPROM can be carried out with NORD CON (Menu: Parameter\Comparison …).
- The data record in the memory module can be completely reset to the factory settings. To do this, select Parameter **P523** accordingly.

  Note: The factory settings for the motor data depend on the type of frequency inverter and are therefore different. Because of this, the motor data are not set correctly during loading of the factory settings via the programming device.
  The idling current (Parameter **P209**) cannot be calculated by the programming device. Parameter **P209** is saved for motors from the motor list. Otherwise, the manufacturer must be contacted with regard to the idling current.

Further Documentation and Software (www.nord.com)

Document	Name		Software	Meaning
BU 0200	SK 2xxE frequency inverter manual		NORD CON	Parameterisation and diagnostic software