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Adapters and adapter cables for the parameterisation units and NORDCON

The following table lists the adapters and adapter cables required for the use of the different parameterisation units and the NORDCON software from NORD DRIVESYSTEMS. The assignment of the adapters to the individual frequency inverter series and the used parameterisation units and NORDCON can be found in the other tables.

NOTICE

Validity of this document

This document is only valid in combination with the operating instructions for the relevant frequency inverter. Safe commissioning of this module and the frequency inverter depends on the availability of this information.

Information

Discontinued products

Note that some of the NORD DRIVESYSTEMS' products listed in this TI have been discontinued and thus are no longer available.

Information

Connection to diagnostic/communication interfaces

For the connection to the diagnostic interface (RJ12 socket) of the frequency inverter, only use the end of the connection cable (📖 TI 275274601) with the RJ12 plug without the latching tab. Otherwise, the plug may get jammed in the RJ12 socket of the frequency inverter.

If necessary, remove the latching tab according to the figure and make sure that no burr remains.

Information

RJ12 connection cable

A standard RJ12 connection cable (RJ12 (6/6) - RJ12 (6/6), 1:1 assigned) is required for the connection of the parameterisation units to the frequency inverter. It is included in the scope of delivery of the following ParameterBoxes:

SK PAR-3E, SK PAR-3H, SK CSX-3E, SK CSX-3H

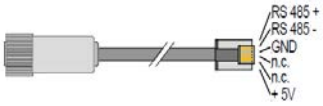
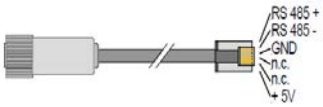
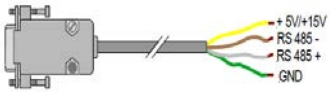
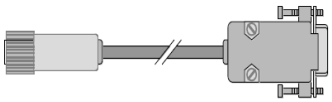
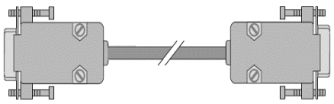
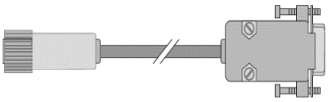
Information

Firmware version of the ParameterBox

If “v!” is displayed, the firmware version of the ParameterBox must be updated. Otherwise, individual parameters may not be displayed.

In this case, contact your NORD Service contact person. You will find your contact person listed on your order confirmation. Additionally, you will find further possible contact persons using the following link: www.nord.com/contact.

Adapter list for connection cables

Ser. no.	Figure / Scope	Designation	Article number / Link
1		Connecting cable SK TIE4-RJ12-RJ12 RJ12 plug (6/6) → RJ12 plug (6/6) 1:1 assigned, 2 m	275 274 601 🕮 TI 275274601 (enclosed with parameterisation units)
2		Connecting cable RJ12/M12 SO RS485 L=0,3M M12 socket → RJ12 plug A-coded, 0.3 m	278 910 230 🕮 TI051_278910230
3		Connecting cable SK TIE4-M12-RJ12 M12 plug → RJ12 plug A-coded, 2 m	275 274 600 🕮 TI051_275274600
4		Connecting cable Adapter M12 SO WIRES M12 socket → Free wires A-coded, 0.22 m	278 910 200 🕮 TI051_278910200
5		Connecting cable P-BOX VECTOR SUB-D 9 socket → Free wires 3 m	278 910 020 🕮 TI051_278910020
6		Connecting cable M12 SO / D-SUB SO M12 socket → SUB-D 9 socket A-coded, 0.22 m	278 910 210 🕮 TI051_278910210
7		Connecting cable P-BOX RS232 VECTOR SUB-D 9 plug → SUB-D 9 socket 2 m	278 910 030
8		Connecting cable P-BOX RS485 VECTOR M12 plug → SUB-D 9 socket A-coded, 3 m	278 910 060 🕮 TI051_278910060

Adapter list for interface converters and USB cables

Ser. no.	Figure / Scope	Designation	Article number / Link
9		Connecting cable USB / 5V Supply → SK IC1-232/485 0.36 m	278 910 220 TI051_278910220
10		Connecting cable SK CE-USB-C-PC-USB-3M USB Type-C Plug series A → Plug series B	275 292 100
11		Connecting cable SK TIE4-RS232-USB USB Type-A → SUB-D 9 plug Including RJ12/SUB-D SO RS232 l=3m	275 274 604 TI 275274604
12	Connecting cable RJ12 short	Interface converter SK TIE4-RS485-RS232 RJ12 socket → RJ12 socket Including RJ12 plug → RJ12 plug, 0.1 m	275 274 603 TI 275274603
13		Connecting cable PC RJ12/SUB-D SO RS232 l=3m SUB-D 9 → RJ12 plug	278 910 240 (enclosed with SK TIE4-RS232-USB)
14		Connecting cable USB USB 2.0 Plug series A → Plug series B	200 816 300 (enclosed with SK PAR-3H)
15		Interface converter SK IC1-232/485 SUB-D 9 socket → SUB-D 9 plug	276 970 020

Assignment of the handheld or installation/attachment parameterisation units for NORD inverter

		Parameterisation units							
		SK PAR-2E	**SK PAR-2H**	**SK PAR-3H**	**SK PAR-3E**	**SK CSX-3H**	**SK CSX-3E**	**SK PAR-5H**	**SK PAR-5A**
Interfaces		RS485	RS485	RS485 / USB	RS485	RS485		RS485 / USB-C	
Frequency inverter		**Legend** ✓ =	Possible			× =	Not possible		
SK 135E	**NORDAC *START***	1 + 12	2 + 12	12	12	12	12	×	×
SK 155E-FDS	**NORDAC *LINK***	1	2	✓	✓	✓	✓	✓ 3)	Wiring on connection terminals
SK 180E	**NORDAC *BASE***	1	2	✓	✓	✓	✓	✓ 3)	×
SK 200E	**NORDAC *FLEX***	1 1)	2 1)	✓	✓	✓	✓	✓ 3)	Wiring on connection terminals
SK 250E-FDS	**NORDAC *LINK***	1	2	✓	✓	✓	✓	✓ 3)	Wiring on connection terminals
SK 300P	**NORDAC *ON***	×	×	✓	×	✓	✓	✓ 3)	Wiring on connection terminals
SK 500P	**NORDAC *PRO***	×	×	✓	✓	✓	✓	✓ Firmware ≥ 5.0	Wiring on connection terminals
SK 500E	**NORDAC *PRO***	1	2	✓	✓	✓	✓	✓ 3)	×
SK 300E	**NORDAC *TRIO***	1 + 3 or wiring on connection terminals, 4-core	Direct connection with M12 system plug	3	3	3	3	×	×

		Parameterisation units							
		SK PAR-2E	SK PAR-2H	SK PAR-3H	SK PAR-3E	SK CSX-3H	SK CSX-3E	SK PAR-5H	SK PAR-5A
Interfaces		RS485	RS485	RS485 / USB	RS485	RS485		RS485 / USB-C	
Frequency inverter		**Legend** ✓ =	Possible			× =	Not possible		
SK 700E	**-RS2 option** ≥ 22 kW	1 [2]	4 [2]	✓ [2]	✓ [2]	✓ [2]	✓ [2]	×	×
	+ **SK CU1-STD**	Wiring on connection terminals, 4-core	4	3 + 4	3 + 4	3 + 4	3 + 4	×	×
SK 750E		1 + 3 or wiring on connection terminals, 4-core	Direct connection with M12 system plug	3	3	3	3	×	×
	+ **SK CU1-STD**	Wiring on connection terminals, 4-core	Direct connection with M12 system plug	3	3	3 + 4	3 + 4	×	×
Vector MC		Wiring on connection terminals, 4-core	4	×	×	3 + 4	3 + 4	×	×
SK TI4-TU-BUS	**BUS connection unit**	×	×	✓	✓	✓	✓	✓ [3]	Wiring on connection terminals
NORDCON	**Parameterisation software**	11 + 12	2 + 11 + 12	14	11 + 12	×	×	14	14

1) The SK PAR-2E and SK PAR-2H ParameterBoxes can control the NORDAC *FLEX* only after a hardware revision. The market launch of the revised ParameterBoxes took place during the fourth quarter of 2009.

2) SK 700E < 30 kW: safe operation only ensured with external voltage supply of the parameterisation units

3) SK PAR-5H and SK PAR-5A: firmware version V 5.0 and higher

Assignment of plug-in parameterisation units to NORD frequency inverters

		Parameterisation units						
		SK TU1-PAR	SK TU1-CTR	SK TU2-CTR	SK TU3-PAR	SK TU3-CTR	SK TU5-PAR	SK TU5-CTR
Interface		RS232	RS232	RS232	RS232	RS232	USB-C	RS232
Frequency inverter		**Legend** ✓ =	Possible		× =	Not possible		
SK 135E	**NORDAC *START***	×	×	×	×	×	×	×
SK 155E-FDS	**NORDAC *LINK***	×	×	×	×	×	×	×
SK 180E	**NORDAC *BASE***	×	×	×	×	×	×	×
SK 200E	**NORDAC *FLEX***	×	×	×	×	×	×	×
SK 250E-FDS	**NORDAC *LINK***	×	×	×	×	×	×	×
SK 300P	**NORDAC *ON***	×	×	×	×	×	×	×
SK 500P	**NORDAC *PRO***	×	×	×	×	×	Pluggable Firmware ≥ 1.4R0	Pluggable
SK 500E	**NORDAC *PRO***	×	×	×	Pluggable	Pluggable	×	×

		Parameterisation units						
		SK TU1-PAR	SK TU1-CTR	SK TU2-CTR	SK TU3-PAR	SK TU3-CTR	SK TU5-PAR	SK TU5-CTR
Interface		RS232	RS232	RS232	RS232	RS232	USB-C	RS232
Frequency inverter		**Legend** ✓ =	Possible		× =	Not possible		
SK 300E	**NORDAC *TRIO***	×	×	Pluggable	×	×	×	×
SK 700E	**-RS2 option** ≥ 22 kW	Pluggable	Pluggable	×	×	×	×	×
	+ **SK CU1-STD**	Pluggable	Pluggable	×	×	×	×	×
SK 750E		×	×	Pluggable	×	×	×	×
	+ **SK CU1-STD**	×	×	Pluggable	×	×	×	×
Vector MC		×	×	×	×	×	×	×
SK TI4-TU-BUS	**BUS connection unit**	×	×	×	×	×	×	×
NORDCON	**Parameterisation software**	×	×	×	×	×	×	×

Assignment of the NORDCON software for NORD frequency inverters

		NORDCON parameterisation software	
PC interfaces		RS232	USB
Frequency inverter			
SK 135E	**NORDAC *START***	13	11
SK 155E-FDS	**NORDAC *LINK***	13	11
SK 180E	**NORDAC *BASE***	13	11
SK 200E	**NORDAC *FLEX***	13	11
SK 250E-FDS	**NORDAC *LINK***	13	11
SK 300P	**NORDAC *ON***	13	11
SK 500P	**NORDAC *PRO***	13	11
SK 500E	**NORDAC *PRO***	13	11
SK 300E	**NORDAC *TRIO***	8 + 15 or 3 + 12 + 13	3 + 11 + 12

		NORDCON parameterisation software	
PC interfaces		RS232	USB
Frequency inverter			
SK 700E	**-RS2 option** ≥ 22 kW	13	11
SK 700E	+ **SK CU1-STD**	5 + 15	5 + 11 + 15
SK 750E		8 + 15 or 3 + 12 + 13	3 + 11 + 12
SK 750E	+ **SK CU1-STD**	5 + 15	5 + 11 + 15
Vector MC		5 + 15	5 + 11 + 15
SK TI4-TU-BUS	**BUS connection unit**	13	11