ALMEMO® NETWORK TECHNOLOGY

01/2011 We reserve the right to make technical changes.

ALMEMO® PC connection using USB data cable ZA 1919 DKU
RS232 data cable, type ZA 1909 DK5, USB adapter cable ZB 1909 USB

- ALMEMO® USB data cable for data connection between an ALMEMO® device and a PC with a USB interface
- ALMEMO® RS232 data cable with a DSUB socket for data connection between an ALMEMO® device and a PC with a COM interface
- ALMEMO® optic fiber cable (RS232 or with adapter to USB) for absolute electrical isolation and extensive protection against lightning.

Types:

USB data cable, electrically isolated, maximum 115.2 kbaud, cable length 1.5 meters, including CD with Windows driver	**ZA1919DKU**
as above but cable length 5 meters	**ZA1919DKU-05**
RS232 data cable electrically isolated, max. 115.2 kbaud, Current consumption : approx. 1 mA Cable length : 1.5 m	**Order no. ZA1909DK5**
As above, but cable lengths 5m / 10m / 15m	**Order no. ZA1909DK5-05 /-10 /-15**
RS232 data cable with optic fiber, max. 115.2 kbaud, Cable length 1,5 m	**Order no. ZA1909DKL**
Longer optic fiber (up to 50 m) for interiors, Duplex plastic 2.2 x 4.3mm, per meter	**Order no. LL2243L**
Converter, USB to RS232, 9-pin DSUB for ALMEMO® data cable ZA1909DKx, including WINDOWS driver	**Order no. ZB1909USB**

ALMEMO® PC connection using Ethernet data cable ZA 1945 DK

- For connecting almost any ALMEMO® measuring instrument to an Ethernet PC network.
- Linking up to the Internet now possible.
- Terminal operation using our AMR-Control software, available free-of-charge.
- XPort-Installer configuration software also included on the AMR CD.
- Measured data acquisition via several Ethernet modules using our Win-Control software. (Version SW5600WC2 and above, see page 06.06)

Technical data

Ethernet	Socket RJ45 (10/100 base-T)
	Automatic switchover 10 / 100 MHz
ALMEMO®	ALMEMO® connector for socket A1 Baud rate standard 9600 bd, max. 115.2 kbd (can be changed via XPort-Installer and browser)
Power supply	12 V DC via measuring instrument (suitable mains supply unit recommended)
Current consumption	<60 mA (10 MHz), <90 mA (100 MHz)

Accessories

Patch cable RJ45, plug / plug, 2 meters — **Order no. ZB 1904 PK2**

Type :

Ethernet data cable, RJ45 socket on ALMEMO® connector, cable length 1.5 meters — **Order no. ZA 1945-DK**

AHLBORN www.ahlborn.com
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ALMEMO® NETWORK TECHNOLOGY

ALMEMO® Network Interface Cables ZA 1999 NK5

Uses:

- Especially suitable for short distances and mobile measuring setups.
- Up to 100 ALMEMO® measuring instruments can be networked.

Advantages:

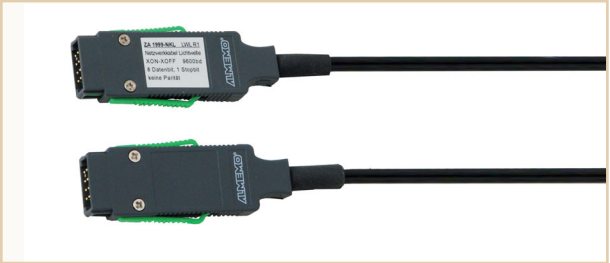
- Devices can be quickly and easily interconnected and networked.
- Low power consumption (approx. 1 mA) without additional power supply.
- You can easily assemble the network cable yourself, up to 50m in length, using just two single network connectors ZA1999FS5 (a couple) and one four-wire cable.

☞ The device network will be blocked if the measuring instrument fails to operate.
No further peripheral devices can be connected (analog output, alarm relay etc.).

Types:

Network cable for cascading several devices for baud rates up to 57.6 kbaud current loop, electrically isolated, 1.5 m long	**Order no. ZA1999NK5**
As above, but cable lengths 5m / 10m / 15m	**Order no. ZA1999NK5 -05/-10/-15/-xx**
2 Network connectors (a couple) with screw terminals for local self-assembly	**Order no. ZA1999FS5**

ALMEMO® Network Interface Cables with Fiber Optics ZA 1999 NKL



Uses:

- Especially suitable for safe and reliable data transmission in industrial environments with high levels of interference.
- Up to 10 ALMEMO® measuring instruments can be networked (at 9600 baud, double this number, if the transmission rate is halved).

Advantages:

- Devices can be quickly and easily interconnected and networked.
- No EMC problems, highest possible immunity to interference, absolute electrical isolation of the instruments - even under high voltages.
- No additional voltage supply is required.
- You can easily assemble the network cable with plastic optic fiber yourself, up to 50m in length, using just two single network connectors ZA1999FSL, without needing any special tools.

☞ In the event of the measuring instrument failing, the network will be blocked.
No further peripheral devices can be connected, (analog output, alarm relays, etc.).

Types:

Network cable with optic fiber for cascading several devices 1.5 m long for baud rates up to 57.6 kbaud	**Order no. ZA1999NKL**
As above, but cable lengths 5m / 10m / 15m	**Order no. ZA1999NKL -05/-10/-15/-xx**
Longer optic fiber cable for interiors, Duplex plastic 2.2 x 4.3 mm	**Order no. LL2243L** (please specify length L)
Network connector with optic fiber converter for local self assembly	**Order no. ZA1999FSL**

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