

RS422 network distributor ZA 5099 NVL

RS232 / RS422 network driver ZA 5099 NTL, Device / PC connection via optic fiber



Technical Data:

Connection :

ZA5099NVL: 3 x RS422, 4-wire, via terminal connector
1 x optic fiber cable, 1.5 m long via ALMEMO® connector to ALMEMO® device

ZA5099NTL: 2 x RS422, 4-wire, via terminal connector
1 x RS232 optic fiber cable, 1.5 m long via 9-pin sub-D to the PC

Wiring arrangements: RS422, 4-wire plus voltage supply, 2-wire data line, (2 x 2 wires, duplicated)stranded in pairs

Max. line length: between two RS422 distributors 1 km
optic fiber cable to the ALMEMO® device or PC, 50 m

Power supply: 10 to 12 V DC, via terminal connector

Current consumption: approx. 10 to 18 mA

Dimensions: L 71,5/90 x W 61,5/95 x H 30 mm

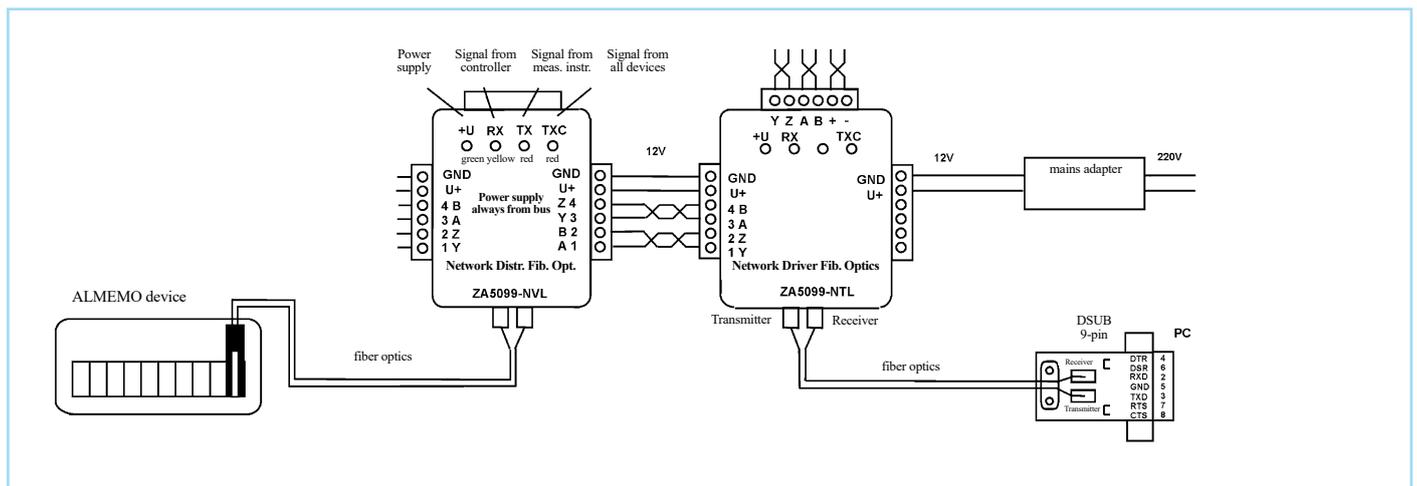
Uses:

- Standard solution for stationary measuring setups in industrial environments.
- Suitable for relatively long distances, up to 1 km.
- Up to 100 ALMEMO® measuring instruments can be networked.

Advantages:

- Absolute electrical isolation of connected instruments - even under high voltages.
- Common mode interference on the transmission line is largely suppressed.
- Trouble-free implementation of branches and stub lines, directly inter-connectable, also as RS485 bus master.
- Easy to install - using a surface-mount housing, fastening brackets, and a screw terminal connector.
- Further peripheral devices can be connected to the ALMEMO® device, (analog output, alarm relays, etc.).

! The distributor is supplied via the RS422 network or via its own mains power unit. The network remains functional - even when the ALMEMO® device is switched off or disconnected.



Types

RS422 network distributor, ALMEMO, device connection via optic fiber (length = 1.5 m),

Power supply via the mains supply unit

RS232 / RS422 network driver ZA5099NTL, computer connection via optic fiber (length = 1.5 m)

Power supply via the mains supply unit

Mains supply unit, 12 V DC / 2 A

Cable housing for ZA5099NVx (1 set = 3 pieces)

Data line 4 x 2 wires, stranded in pairs, per meter (power supply, 2 x 2 wires, duplicated)

Order no.

ZA 5099 NVL

ZA 5099 NTL

ZB1012NA10

ZB5099KG

LD0042

ALMEMO® Network technology

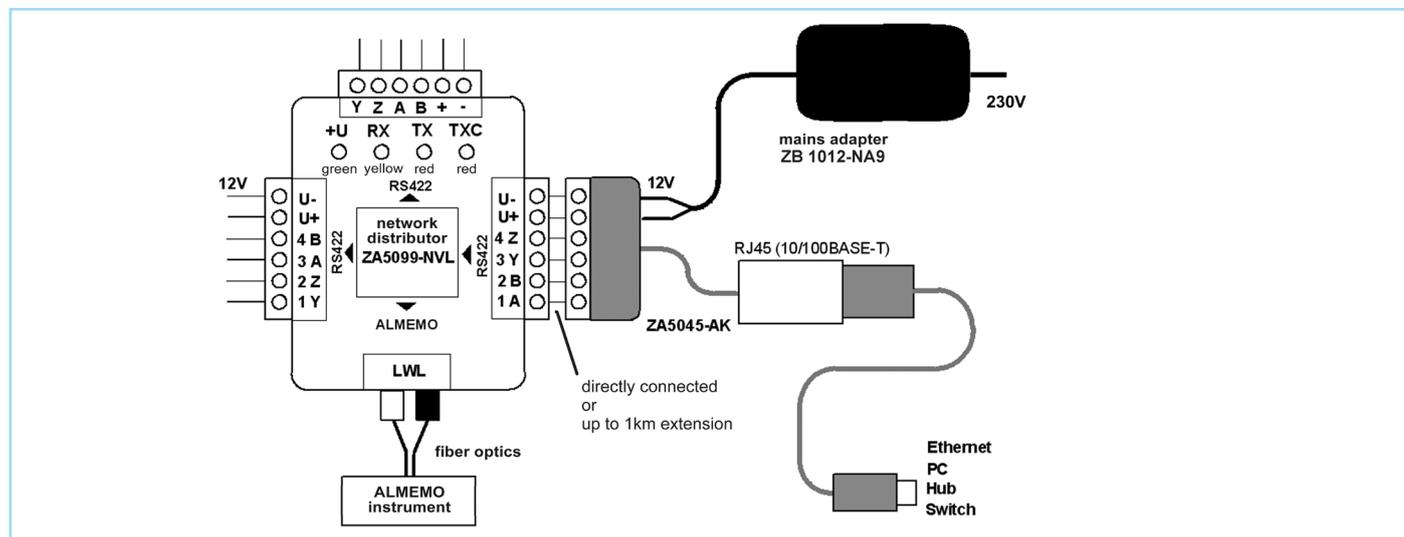
Ethernet network driver ZA 5045 AK



Technical data

Ethernet:	Socket RJ45 (10/100 base-T) automatic switchover 10 / 100 MHz
RS422	6-pin screw terminal connector, 4-wire TX+, TX-, RX+, RX- and supply +12 V, -12 V; line length between driver and distributor, maximum 1 kilometer
Baud rate	maximum 115.2 kbaud
Power supply	9 to 12 V DC, <60 mA (10 MHz), <90 mA (100 MHz)

- Connection of all ALMEMO® networks to an Ethernet PC network.
- Linking up to the Internet now possible.
- Terminal operation using our AMR-Control software, available free-of-charge.
- Configuration software XPort/Device-Installer is also included on the AMR CD.
- Measured data acquisition using our WinControl software (see Chapter Software).
- Extension between driver and network distributor up to 1 kilometer now possible.
- Can also be used as RS485 bus driver.
- The driver in conjunction with network distributor ZA5099-NVL replaces previous Ethernet network distributor ZA5099-NVE.



Types

Ethernet network driver, RJ45 to RS422, 4-wire

Mains adapter, 12 V DC, 2 A, with free ends, also for supplying other network distributors via the bus

Patch cable RJ45, plug / plug, 2 meters

Optic fiber network distributor RS422 to ALMEMO® optic fiber and 2 x RS422

Data line 4 x 2 wires, stranded in pairs, per meter (power supply, 2 x 2 wires, duplicated)

Order no.

ZA5045AK

ZB1012NA10

ZB1904PK2

ZA5099NVL

LD0042

RS422 network distributor ZA 5099 NVB

RS232 / RS422 network driver ZA 5099 AS, device connection via screw terminals



Uses:

- Especially suitable for relatively long distances, up 1 km, and for stationary measuring setups.
- Up to 100 ALMEMO® measuring instruments can be networked.

Advantages:

- Common mode interference on the transmission line is largely suppressed.
- Trouble-free implementation of branches and stub lines, directly inter-connectable, also as RS485 bus master.
- Easy to install - using a surface-mount housing, fastening brackets, and a screw terminal connector.
- Further peripheral devices can be connected to the ALMEMO® device, (analog output, alarm relays, etc.).

Technical Data:

Connection :

- ZA5099NVB : 3 x RS422, 4-wire, via terminal connector
1 x cable, 1.5 m, via ALMEMO connector to the ALMEMO device
- ZA5099AS : 1 x RS422, 4-wire, via terminal connector
1 x RS232, via 9-pin sub-D, to the PC

Wiring arrangements : RS422, 4-wire data line, stranded in pairs

Max. line length : between two RS422 distributors, 1 km

Power supply :

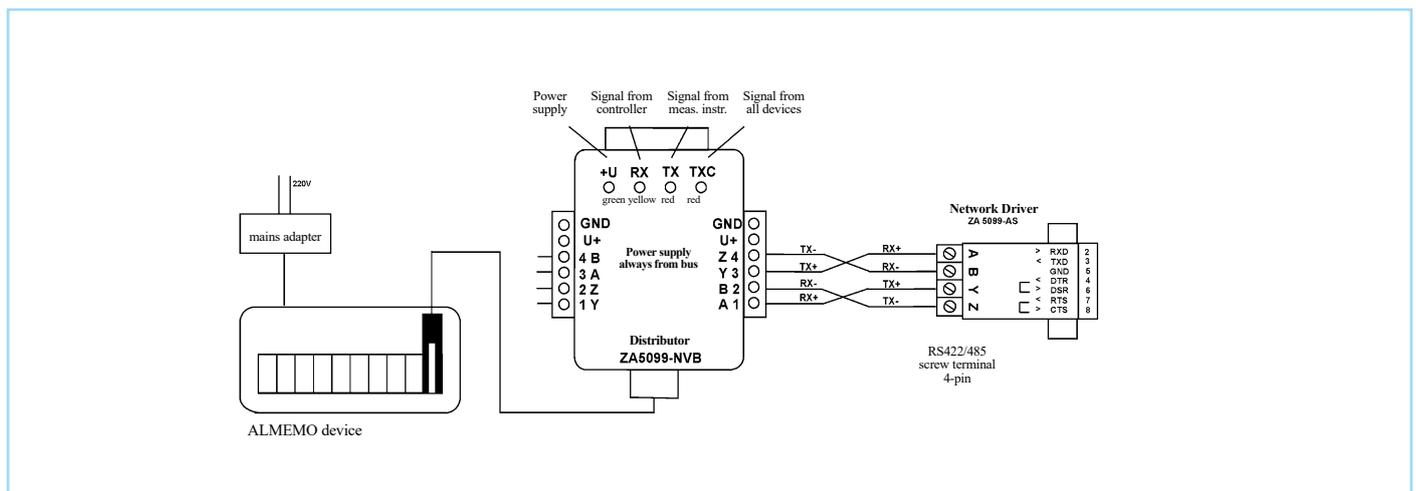
- ZA5099NVB : via ALMEMO device (standard)
ZA5099AS : No external supply necessary

Current consumption : approx. 25 to 35 mA

Dimensions :

- ZA5099NVB : L 71,5/90 x W 61,5/95 x H 30 mm
ZA5099AS : L 50 x W 33 x H 16 mm

! The power for the distributor is, as standard, supplied via the ALMEMO® device. The network is only functional when the ALMEMO® device is switched on. Alternatively, the power for the distributor can be supplied via the RS422 network or via its own mains power unit.



Types

RS422 network distributor, ALMEMO device connection via cable (length = 1.5 m),
Supply via ALMEMO device or via network (selectable by jumpers)

RS232 / RS422 network driver, can be connected directly to the computer

Mains supply unit, 12 V DC / 2 A

Cable housing for ZA5099NVx (1 set = 3 pieces)

Data line 4 x 2 wires, stranded in pairs, per meter (power supply, 2 x 2 wires, duplicated)

Order no.

ZA5099NVB

ZA 5099 AS

ZB1012NA10

ZB5099KG

LD0042