

## ALMEMO® extension cable up to 4 meters length for all ALMEMO® devices (V5, V6, V7)

Passive extension cable ZA 9060-VK for all ALMEMO® sensors (analog, DIGI, D6, D7) except for thermocouple sensors.



### Technical data and functions

- The passive ALMEMO® extension cables ZA 9060-VK are used for all ALMEMO® sensors (analog, DIGI, D6, D7) except for thermocouple sensors and for all ALMEMO® devices (V5, V6, V7).
- The extension cables have an ALMEMO® connector/ coupling and are plugged between the ALMEMO® sensor plug and the ALMEMO® measuring instrument.
- The measuring signal or the digital measured values and the parameters saved in the ALMEMO® sensor plug are evaluated by the ALMEMO® measuring instrument via the extension cable.

- Note: Many ALMEMO® sensors can be delivered with a longer connecting cable. Please do not hesitate to ask!

**! Please note:**  
Connecting cables must not be plugged together!

### Variants:

Passive extension cable for all ALMEMO® sensors (analog, DIGI, D6, D7) except for thermocouple sensors, for all ALMEMO® devices (V5, V6, V7).

- 1 meter long
- 2 meters long
- 4 meters long

### Order no.

- ZA9060VK1
- ZA9060VK2
- ZA9060VK4

Passive extension cable ZA 9020-VK up to 4 m length for ALMEMO® sensor NiCr-Ni



### Technical data and functions

- The passive ALMEMO® extension cables NiCr-Ni ZA 9020-VK are used for ALMEMO® sensors NiCr-Ni and for all ALMEMO® devices (V5, V6, V7).
- The extension cables NiCr-Ni feature a specific cable with integrated compensating cable NiCr-Ni, have an ALMEMO® connector / coupling, and are plugged between the ALMEMO® sensor plug and the ALMEMO® measuring instrument.
- The measuring signal and the parameters saved in the ALMEMO® sensor plug are evaluated by the ALMEMO® measuring instrument via the extension cable
- Note: ALMEMO® extension cables are only available for

thermocouple type K, NiCr-Ni. Many ALMEMO® thermocouple sensors can be delivered with a longer thermal line / compensation line. Please do not hesitate to ask.

**! Please note:**  
Connecting cables must not be plugged together!

### Variants:

Passive extension cable for ALMEMO® sensor NiCr-Ni and for all ALMEMO® devices (V5, V6, V7).

- 1 meter long
- 2 meters long
- 4 meters long

### Order no.

- ZA9020VK1
- ZA9020VK2
- ZA9020VK4

# General accessories

## ALMEMO® extension cable up to 100 meters in length for all ALMEMO® devices (V5, V6, V7)

Intelligent extension cable ZA 9090-VKC up to 100 meter in length for all ALMEMO® sensors, analog, D6, except for D7, except for thermocouple sensors.



### Technical data and functions

- The intelligent ALMEMO® extension cables ZA 9090-VKC are used for analog ALMEMO® sensors, D6, except for D7, except for thermocouple sensors and for all ALMEMO® devices (V5, V6, V7).
- The extension cables have an ALMEMO® connector/ coupling (each with a microcontroller) and are plugged between the ALMEMO® sensor plug and the ALMEMO® measuring instrument. The current consumption of the extension cable is approximately 8 mA.
- The analog measuring signals are transferred analogy via the intelligent extension cable, the digital measured values and the

parameters saved on the ALMEMO® sensor plug are digitally transferred via CRC and evaluated by the ALMEMO® measuring instrument.

- The ALMEMO® sensors can be exchanged arbitrarily. The intelligent extension cable does not influence the measurement operation even in case calibrated sensors with adjustment / multi-point adjustment or sensors with special linearizations (saved on the ALMEMO® sensor plug) are used.
- Note: Many ALMEMO® sensors can be delivered with a longer connecting cable. Please do not hesitate to ask!



### Please note:

The intelligent extension cables ZA 9090-VKC are

#### not suitable for:

- ALMEMO® plug for frequency, pulse, rotational speed ZA 9909-AKx,
- ALMEMO® rotational speed sensor FU A919-2,
- ALMEMO® plug for digital signals (voltage) ZA 9000-ES2/EK2,
- ALMEMO® measuring module for DC voltage / DC ZA 9900-AKx, ZA 9901-AKx (no average value),
- ALMEMO® flow sensors FV A915-Vx,
- ALMEMO® vane anemometer FV A915-x (new variant FVAD 15-x can be used),
- Meteorological transducer FM A510.

Connecting cables must not be plugged together!

If the intelligent extension cable ZA 9090-VKC is used, the device cannot operate in sleep mode.

### Variants:

Intelligent extension cable for ALMEMO® sensors, analog, D6, except for D7, except for thermocouple sensors\*, for all ALMEMO® devices (V5, V6, V7).

- 5 meters long
- 10 meters long
- 20 meters long
- 30 meters long
- 50 meters long
- 100 meters long

### Order no.

- ZA9090VKC5
- ZA9090VKC10
- ZA9090VKC20
- ZA9090VKC30
- ZA9090VKC50
- ZA9090VKC100

\*ALMEMO® extension cable with compensating cable for thermocouple sensor NiCr-Ni on request!

## ALMEMO® D7 extension cable, up to 100 meters in length and electrically isolated, for ALMEMO® V7 devices and ALMEMO® D7 sensors

Digital extension cable ZAD7 00-VK, up to 100 meters in length, for ALMEMO® D7 sensors



### Technical data and functions

- ALMEMO® digital extension cable ZAD7 00-VK is used for ALMEMO® V7 devices and for ALMEMO® D7 sensors.
- Each such extension cable incorporates an ALMEMO® plug / coupling (each with integrated microcontroller); it should be connected between the ALMEMO® sensor plug and the ALMEMO® measuring instrument. Current consumption for this extension cable is approx. 2 mA.
- The digital measured values and the parameters saved in the ALMEMO® sensor plug are transferred in digital form via an RS485 link with CRC to the ALMEMO® measuring instrument, which then evaluates them.

- The ALMEMO® sensors can be freely interchanged. The digital extension cable has no effect on the measuring operation; this also applies to calibrated sensors with adjustment / multi-point adjustment.
- With digital extension cable ZAD7 00-VK device operation in sleep mode is possible; (sleep delay must be programmed in the sensor plug).

**! Please note:**  
Connecting cables must not be plugged together!

### Variants:

Digital extension cable for ALMEMO® V7 devices and for ALMEMO® D7 sensors.

5 meters long  
10 meters long  
20 meters long  
30 meters long  
50 meters long  
100 meters long

### Order no.

ZAD700VK05  
ZAD700VK10  
ZAD700VK20  
ZAD700VK30  
ZAD700VK50  
ZAD700VK100

## ALMEMO® D7 electrical isolation element ZAD7 00-GT



### Technical data and functions

- Electrical isolation element ZAD7 00-GT is used to isolate the ALMEMO® V7 device and the ALMEMO® D7 sensor from one another. This also electrically isolates the ALMEMO® D7 sensor with respect to the other connected ALMEMO® sensors.
- The electrical isolation element is a short pluggable cable with ALMEMO® plug / coupling. The ALMEMO® coupling incorporates an integrated 12V DC/DC converter ensuring electrical isolation between the power supply to the ALMEMO® electronics and that to the connected sensor. The digital data link is electrically isolated via an optocoupler. The maximum insulation voltage is 50V (continuous).
- The electrical isolation element is plugged directly onto the ALMEMO® V7 device. Current consumption for this electrical isolation element is approx. 8 mA. It is also possible to use an ALMEMO® D7 extension cable between the electrical isolation

element and the ALMEMO® D7 sensor.

- As with the ALMEMO® D7 extension cable, the ALMEMO® sensors can be freely interchanged. The electrical isolation element has no effect on the measuring operation; this also applies to calibrated sensors with adjustment / multi-point adjustment.
- As with the ALMEMO® D7 extension cable, device operation in sleep mode is possible; (sleep delay must be programmed in the sensor plug).

**! Please note:**  
It is not permitted to connect several electrical isolation elements in series.

### Variants:

Electrical isolation element for ALMEMO® V7 devices and for ALMEMO® D7 sensors  
Plug-in cable Length = 0.2 meters

### Order no.

ZAD700GT