General accessories

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: Many ALMEMO® thermocouple type K, NiCr-Ni 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
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 9060-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 analog 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:

<table>
<thead>
<tr>
<th>Length</th>
<th>Order no.</th>
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<tbody>
<tr>
<td>5 meters</td>
<td>ZA9090VKC5</td>
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<tr>
<td>10 meters</td>
<td>ZA9090VKC10</td>
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<td>20 meters</td>
<td>ZA9090VKC20</td>
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<td>30 meters</td>
<td>ZA9090VKC30</td>
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<tr>
<td>50 meters</td>
<td>ZA9090VKC50</td>
</tr>
<tr>
<td>100 meters</td>
<td>ZA9090VKC100</td>
</tr>
</tbody>
</table>

*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
- 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).

<table>
<thead>
<tr>
<th>Variants:</th>
<th>Order no.</th>
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<tbody>
<tr>
<td>Digital extension cable for ALMEMO® V7 devices and for ALMEMO® D7 sensors.</td>
<td>ZAD700VK05</td>
</tr>
<tr>
<td>5 meters long</td>
<td>ZAD700VK10</td>
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<tr>
<td>10 meters long</td>
<td>ZAD700VK20</td>
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<tr>
<td>20 meters long</td>
<td>ZAD700VK30</td>
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<tr>
<td>30 meters long</td>
<td>ZAD700VK50</td>
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<tr>
<td>50 meters long</td>
<td>ZAD700VK100</td>
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<tr>
<td>100 meters long</td>
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</tbody>
</table>

**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).

<table>
<thead>
<tr>
<th>Variants:</th>
<th>Order no.</th>
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</thead>
<tbody>
<tr>
<td>Electrical isolation element for ALMEMO® V7 devices and for ALMEMO® D7 sensors</td>
<td>ZAD700GT</td>
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<tr>
<td>Plug-in cable Length = 0.2 meters</td>
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