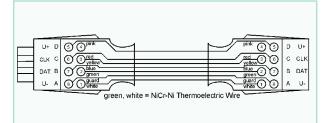
Extension Cable for NiCr-Ni Sensors



Extensions up to 4 meters Passive extension cables ZA9020VK (NiCr-Ni)

Passive 8-pin extension cables with ALMEMO[®] connectors are available in lengths 1, 2, and 4 meters; for NiCr-Ni thermocouples special extension cables with an integrated compensation line are available (ZA 9020 VK1/2/4).

The cable length between sensor connector and measuring instrument must not exceed four (4) meters; if this maximum length is exceeded, communications with the connector EEPROM may be adversely affected.

The total length of all passive extension cables connected to an ALMEMO[®] measuring instrument must not exceed four (4) meters. If the total length exceeds this, the device's internal data bus may, depending on environmental conditions, be subject to interference.

Extensions, 5 meters and longer Longer sensor lines

If distances exceeding this really are necessary, then - instead of extension cables - longer sensor lines should be used.

For this purpose the sensor connector must be detached, the sensor cable extended in the conventional way with a compensation line, and the connector then refitted to the end.

Active extension cables ZA9020VKP (NiCr-Ni)

If for some reason it is not possible to extend the sensor cable itself, an active extension cable ZA9020VKP (NiCr-Ni) can be used. This cable incorporates an ALMEMO[®] connector with an integrated EEPROM for data storage; this connector is a copy of the sensor connector. A compensation line is used for the extension.

The terminals in the connectors are also made from thermo material.

If correction values or other sensor-specific settings have been programmed in the sensor connector (e.g. comments, average values, etc.), these must also be programmed (being a copy) in the ALMEMO[®] connector on the extension cable.

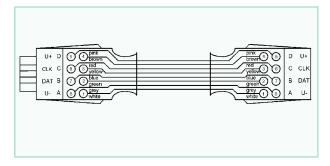
The active extension cable is then sensor-specific.

Extension cable, from NiCr-Ni compensation line 1 meter long (passive) 2 meters long (passive) 4 meters long (passive) 10 meters long (active, with EEPROM, sensor-specific)

Order no. ZA9020VK1 Order no. ZA9020VK2 Order no. ZA9020VK4 Order no. ZA9020VKP10

Extension cable for all other measuring probes (except thermocouples)





Extensions up to 4 meters Passive extension cables ZA9060VK

Passive 8-pin extension cables with ALMEMO[®] connectors are available in lengths of 1, 2, and 4 meters (ZA 9060 VK1/2/4); these are suitable for all sensors (except thermocouples).

The cable length between sensor connector and measuring instrument must not exceed four (4) meters; if this maximum length is exceeded, communications with the connector EEPROM may be adversely affected.

The total length of all passive extension cables connected to an ALMEMO[®] measuring instrument must not exceed four (4) meters. If the total length exceeds this, the device's internal data bus may, depending on environmental conditions, be subject to interference.

Extensions, 5 meters and longer Longer sensor lines

If distances exceeding this really are necessary, then - instead of extension cables - longer sensor lines should be used. For this purpose the sensor connector must be detached, the sensor cable extended in the conventional way, and the connector then refitted to the end.

New

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Intelligent extension cable ZA 9090 VKC with RS485 from 5 meters and above

If the sensor cable cannot be extended as such , it is still possible to use new intelligent extension cable(s) ZA9060-VKC with microcontroller for up to 100 meters. Two microcontrollers transmit EEPROM data from the sensor connector and measured data from digital sensors (DIGI) in both directions via RS485 and make this interference-resistant data available for the measuring instrument. Sensors can thus be freely interchanged as and when necessary (e.g. calibrated sensors with correction values,.multipoint calibration or special linearization (ZAxxxSS)).

These intelligent extension cables cannot be used for thermocouples or for sensors with a frequency / pulse output (e.g. turbines / rotating vanes FVA915, frequency / pulse / rotational speed ZA 9909 AKx / FUA 9192, DC measuring modules ZA 99xx AB).

When using extension cable(s) operation in sleep mode is not possible.

Types :

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Extension cable for all other sensors (max. 5 meters passive)

- 1 meter long (passive)
- 2 meters long (passive)
- 4 meters long (passive)

New

5 meters long (intelligent, with microcontroller, not sensor-specific) 10 meters long (intelligent, with microcontroller, not sensor-specific) 20 meters long (intelligent, with microcontroller, not sensor-specific)

30 meters long (intelligent, with microcontroller, not sensor-specific) 50 meters long (intelligent, with microcontroller, not sensor-specific) 100 meters long (intelligent, with microcontroller, not sensor-specific)

Order no.	ZA9060VK2
Order no.	ZA9060VK4
Order no.	ZA9090VKC5
Order no.	ZA9090VKC10
Order no.	ZA9090VKC20
Order no.	ZA9090VKC30
Order no.	ZA9090VKC50
Order no.	ZA9090VKC100

Order no. ZA9060VK1



GPS mouse for determining position





Variants

Fix for current location via GPS Measuring channels for latitude and longitude

GPS mouse with cable and ALMEMO[®] connector Order no. ZAD919GPS

Thermo Add-On Printer



Accessories (for re-ordering):

Printer data cable Roll temperature sensitive paper Order no. ZA1981DK Order no. ZK1080TP

Technical Data:	
Print mechanism:	matrix, 7 x 9 dots
Interface:	RS232C 9-pin DSUB
Power supply:	integrated rechargeable battery/mains adapter
Power supply adapter:	6.5 V / 2 A
Characters:	40 / 80 characters per line
Paper:	temperature sensitive paper (UV-protected storage required), 112mm wide, roll: Ø 38mm
Operating temperature:	0° to 40°C
Dimensions:	H 66,5 x W 170 x D 160mm
Weight:	printer appr. 1kg mains adpter appr. 1kg

Extent of the delivery:

Thermo printer including Mains adapter, printer data cable, 2 rolls of temperature sensitive paper **Order n**

Order no. DK2081

Stand



Types:

Large tripod stand for complex, mobile measurement setups

Order no. ZX9000ST3

Accessories for measuring instruments ALMEMO[®] 2450, 2490, 2590 and output interface ZA 8006 RTA



Batteries and Rechargeable Batteries



Types:9V battery (spare)Order no. ZB2000B9Charger, int. in connector
incl. 9V bat.Order no. ZB2000LS9V rechargeable batteryOrder no. ZB2000A9AA battery, 1.5 VOrder no. ZB2000B1AA NiMH rechargeable battery, 1.2 V, 1600 mA, coded
for charging in ALMEMO* unit
(e.g. ALMEMO* 2690-8)Order no. ZB2000A1NM

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Mains Adapter



Variants

Switching power supply / connector variant 90 to 260 VAC 12 VDC, 1 A DIN hollow connector for ALMEMO® 2890-9, 6290-7B2 Order no. ZB1112NA8 12 VDC, 1 A ALMEMO[®] connector e.g. for hand-held devices ALMEMO[®] 2450, 2490, 2590, 2690 Order no. ZA1312NA8 12 VDC, 1 A 3-pin bayonet coupling e.g. for ALMEMO® 8590-9 Order no. ZB1212NA8 12 VDC, 2.5 A 3-pin bayonet coupling e.g. for ALMEMO® 5690, 8690 Order no. ZB1212NA9 12 VDC, 1 A With free ends Order no. ZB1012NA8 12 VDC, 2.5 A With free ends Order no. ZB1012NA9

new

Accessories

Types:

Conversion connector for mains-powered devices Euro-plug to US standard (flat-pin) Order no. ZB1000UA

10 to 30VDC, electr. isol., with DIN hollow connector

10 to 30 V DC, electrically isolated, with DIN hollow connector

DC Power Supply Cables



Usage for car and electric fence batteries.



for ALMEMO® 2390, 8490 Output: 12VDC/250mA (max.)

Order no. ZB2290UK

Order no. ZB1000AKU

New ALMEMO[®] power supply plug, 9 to 12 VDC, not electr isolated, with clamp connector for ALMEMO® DC socket Q hand-held devices ALMEMO® 2450, 2490, 2590, 2690 Order no. ZA13

Order no. ZA

Instrument Cases and Standby Bags



ZB2590TK2



ZB5600TK3



ZB2490TK



ZB2890TK

Types:

Carry cases (approx. dimension	is in cm)
Carry case, large, aluminum pro butadiene styrene) - e.g. for AL held devices, Inside dimensions (removable insert)	MEMO [®] 2690 / 2890 hand-
Carry case, universal, high, alur for ALMEMO [®] 5690 measuring Inside dimensions 48 x 25 (Wx (removable insert)	systems
Instrument case for ALMEMO 2 (WxDxH) 38 x 28 x 7(divided in photograph)	
Instrument case for ALMEMO 2 dimensions (WxDxH) 38 x 28 x see photograph)	
Storage case (light-weight versi (WxDxH) 43 x 33 x 6 (divided in photograph)	
Rack case (approx. dimensions	in cm)

Rack case with carrying handle, for ALMEMO[®] MA5690xxBT8 measuring systems, in 19-inch sub-rack, 84 DU, height 5 HU Outside dimensions (WxDxH) 54 x 50 x 27, with integrated lockable rack draw, inside dimensions (WxDxH) 40 x 37 x 7 (for cables, accessories, or laptop) **Order no. ZB5090RC**



ZB2280LK



ALMEMO[®] input connector also for existing sensors (see Chapter 03) ALMEMO[®] output modules (analog, relay, trigger) (see Chapter 04)

ZB5090RC

ALMEMO[®] data connection, network technology, Bluetooth modules Wireless and modem transmission (see Chapter 05).





Software for the presentation and evaluation of measuring data, including many notes, is described in section 6. The software 'AMR-Control' for measurement setup and convenient device handling, as well as the manual, are included with the delivery of all ALMEMO[®] devices with digital outputs.

01/2011 We reserve the right to make technical changes



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