

Input connectors and adapter cables

Content

Make the most of your existing sensor technology	02.02
High-precision measuring operations using inexpensive standard sensors - thanks to Multi-point Correction.	02.03
Connectors for Thermocouple	02.04
ALMEMO® Measuring Module for Thermocouples	02.04
Connector for Thermocouple	02.05
Connector with integrated cold junction sensor	02.05
Connector for Pt100 Sensors/Pt1000 Sensors	02.05
Connector for Ni100 Sensors/Ni1000 Sensors	02.06
Connector for Ntc Sensors	02.06
Connector for Resistance	02.06
Connector for Potentiometer pickoffs	02.07
Connector for Volt DC	02.07
Input connector for Measuring Bridges	02.09
Measuring Module for DC Voltage	02.09
Connector for DC Current	02.10
Measuring Module for DC	02.11
Adapter Cables for AC	02.11
Measuring Module for AC Voltage	02.12
Measuring Module for AC	02.12
Adapter Cables for Frequency / Pulse / Rotational Speed	02.13
Adapter Cable for Digital Input Signals	02.13
Universal Adapter Cables with Free Ends	02.14
MU Connector for ALMEMO® Plug-In Boards	02.14
Connector Adapter Cable, Digital Input of Third Party Device to ALMEMO® Device	02.15

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Input connectors and adapter cables



ALMEMO® Input connectors

Make the most of your existing sensor technology

Our patented intelligent connector makes the ALMEMO® measuring system extraordinarily flexible. Thus, instead of our pre-configured ALMEMO® sensors, you can use your own existing sensors.

We can supply you with ALMEMO® connectors specially pre-programmed for this purpose with the necessary sensor parameters and the appropriate measuring range. These have six screw terminals and can be easily and conveniently connected.

All devices and connectors offer the

following functions :

- Each measuring point can be assigned a specific designation.
- The sensor signals can be scaled.
- Measured values can be corrected for zero-point and gain.

The new measuring instruments with ALMEMO® connectors also offer the following additional functions :

- Multi-point calibration data can be saved in the connector.
- User-defined linearization with up to 30 points can be programmed in the connector.
- Control points with actual / setpoint

value table can be entered quickly and easily via the AMR-Control software.

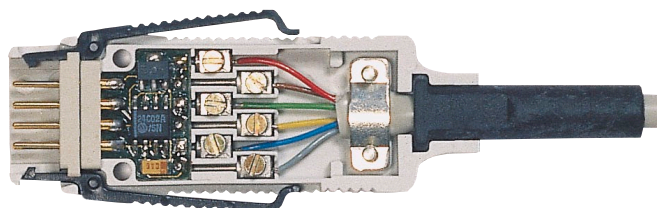
- Any special measuring ranges programmed in the connector can be processed.
- Calibration schedules can be managed in the connector and are detected automatically.
- The connector's exact designation can be called up.

The already high level of precision and overall performance quality provided by ALMEMO® measuring technology is thus raised even further.

Give us a description of your measuring tasks !

And we shall provide you with comprehensive advice and find the most cost-effective solution.

Please do not hesitate to ask !



Input connectors and adapter cables

High-precision measuring operations using inexpensive standard sensors - thanks to multi-point correction. Linearization and correction of non-linear sensors

Linearization and correction at over 30 points - performed by the user - without further processing on the PC

Although special-purpose sensors with a non-linear output can usually be connected to existing measuring systems, the lack of linearization in the sensor's output signal means that the measured value will need subsequent correction to make it at all usable. AHLBORN now offers customers

a revolutionary new feature - also available with hand-held devices. An option is now available allowing the user to perform linearization and multi-point correction on ALMEMO® measuring instruments. Not only all the relevant sensor characteristics but also the linearization or multi-point

correction data are saved in the patented ALMEMO® connector. The measuring instrument automatically recognizes each sensor that is connected to it and shows the appropriate measured values precisely in its display.

Sensor-specific linearization data can be saved by the user in the connector itself

Thanks to further development of the flexible and intelligent ALMEMO® connector it is now possible to save complex tables for linearization or multi-point correction - all in the connector itself. For the user this means that it is now also possible to connect sensors with a non-linear output. The device displays measured values already in linearized form; this ensures that the whole process can be monitored right from the outset. A further advantage

is the enormous saving in time when evaluating special measuring operations of this nature. For each sensor the linearization data is saved in the connector; then as soon as the sensor is plugged into the measuring instrument this data is loaded automatically. The linearization table is buffered in the main working memory on the device for the period of the measuring operation in question or for as long as the sensor remains connected. With effect from the

ALMEMO® 2690-8 the user can use this "KL" option to program linearization processes of this nature quickly and easily. Individual linearization processes can be applied in the voltage, current, resistance, or frequency ranges. On request - or for other devices - readily pre-programmed connectors can be obtained from the factory. Various already implemented special-purpose linearizations are also available.

High-precision measuring operations - thanks to multi-point correction

A sensor's output signal can also be corrected at various specific points. Inexpensive standard sensors made by third-party manufacturers can be calibrated. Deviations are then saved in the sensor connector as fine corrections.

This can be performed either by users themselves or on request in advance at the factory - for example for temperature calibrations. It is now possible to save not only previous characteristics but also over 30 correction points - all in the connector

itself. In the new digital ALMEMO® D6 sensors (code „D6“) stored at the factory all matching data in the digital sensor element. The multi-point correction / linearization using the ALMEMO® device with KL option is NOT applicable.

Programming via software

In the AMR-CONTROL software package the measuring protocol for a multi-point correction or a linearization table can be transferred to a table of reference points. Over 30 such reference points are

possible. During a measuring operation the measured values between these are interpolated on a linear basis. The AMR-

CONTROL software is included with all our instruments free-of-charge.

System requirements

Connector - the new generation (code "E4"), not for digital ALMEMO® D6-sensors (additional code „D6“) For evaluation purposes : ALMEMO® devices in version V6 (2490, 2470, 2590-2/3S/4S, 2690, 2890, 4390, 8590, 8690, 5690)

For user-defined programming : Option "KL" with devices 2690-8, 2890-9,8590, 8690 and 5690

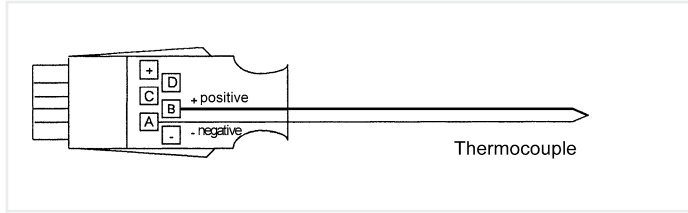
The screenshot displays two windows from the AMR-CONTROL software. The background window is titled "Messprotokoll" (Measurement Protocol) and shows a table for "Bereich Strömungsgeschwindigkeit" (Flow Velocity Range) with columns for "Fühler/Kal Nr." (Sensor/Cal No.), "Referenzwert m/s" (Reference value m/s), "Anzeige m/s" (Display m/s), "Abweichung m/s" (Deviation m/s), and "Messunsicherheit m/s" (Measurement uncertainty m/s). The foreground window is titled "Mehrpunkt-Kalibration / Sonderlinearisierung" (Multi-point Calibration / Special Linearization) and contains input fields for "Messstelle" (Measurement point), "Meßbereich" (Measurement range), and "Stützpunktzahl" (Number of support points). Below these fields is a table with columns "Stützpunkt" (Support point), "Referenz / Sollwert" (Reference / Target value), and "Anzeige / Referenzwert" (Display / Reference value). The table contains three rows of data. At the bottom of the dialog are buttons for "Zeile einfügen" (Insert row), "Zeile löschen" (Delete row), "Mit/ohne Bereichsgrenzen" (With/without range limits), and "Programmieren" (Program).

Fühler/Kal Nr.	Referenzwert m/s	Anzeige m/s	Abweichung m/s	Messunsicherheit m/s
FV A605-TA10	0,3	0,33	0,03	0,05
Q031239	0,45	0,49	0,04	0,05
	1,00	1,04	0,04	0,05
	2,00	2,08	0,08	0,05

Stützpunkt	Referenz / Sollwert	Anzeige / Referenzwert
1.	0.30	0.33
2.	0.45	0.49
3.	1.00	1.04

Input connectors and adapter cables

ALMEMO® Connector for Thermocouple Types K, N, L, J, T



Variants (with thermal material)

Model	Meas. Range	Resolution	Order no.
NiCr-Ni (K)	-200.0 to +1370.0°C.	0.1 K	ZA9020FS
NiCroSil-NiSil (N)	-200.0 to +1300.0°C.	0.1 K	ZA9021FSN
Fe-CuNi (L)	-200.0 to +900°C.	0.1 K	ZA9021FSL
Fe-CuNi (J)	-200.0 to +1000°C.	0.1 K	ZA9021FSJ
Cu-CuNi (T)	-200.0 to +400°C.	0.1 K	ZA9021FST

ALMEMO® measuring module for thermocouples, types K, J, T, electrically isolated, up to 1000 V Type ZAD 950 AB



- Electrically isolated measurement of thermocouples (in particular bare thermo-wire types) on live parts
- Digital transfer of measured values to the ALMEMO® measuring instrument
- Connecting cable, fitted with ALMEMO® plug

Technical data

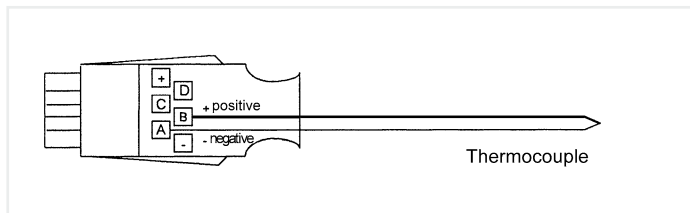
Sensor	Thermocouple	Electrical isolation	1 kV DC/AC permanent, 4 kV for 1s
Measuring range		Sensor connection	4-mm safety sockets and safety plugs (with screw terminals)
ZAD950ABK	NiCr-Ni (K) -200 to 1370 °C	Power supply	6 to 13 VDC via ALMEMO® device
ZAD950ABJ	Fe-CuNi (J) -200 to 1000 °C	Current consumption	approx. 30 mA
ZAD950ABT	Cu-CuNi (T) -200 to 400 °C	Connecting cable	1.5 meters with ALMEMO® plug
Resolution	0.1 K	Housing	Dimensions (LxWxH) 127x83x38mm, ABS (acrylonitrile butadiene styrene)
Linearization accuracy	±0.05 K ±0.05 % of measured value		
Precision class	C (see page 01.05)		

Types:

ALMEMO® measuring module for NiCr-Ni (K), including 1.5 meters ALMEMO® connecting cable	ZAD950ABK
ALMEMO® measuring module for Fe-CuNi (J) including 1.5 meters ALMEMO® connecting cable	ZAD950ABJ
ALMEMO® measuring module for Cu-CuNi (T) including 1.5 meters ALMEMO® connecting cable	ZAD950ABT
Please note : thermocouple must be ordered extra; e.g. thermo-wires see Chapter Temperature DAkS/DKD- or Factory calibration KE90xx, electrically, for digital measuring module, see Chapter Calibration	

Input connectors and adapter cables

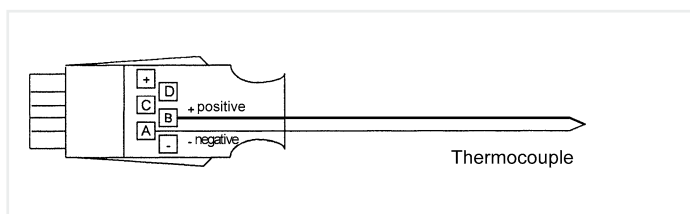
ALMEMO® Connector for Thermocouple Types U, S, R, B, AuFe-Cr



Types

Model	Meas. Range	Resolution	Order no.
Cu-CuNi (U)	-200.0 to +600.0°C	0.1 K	ZA9000FSU
PtRh10-Pt (S)	0.0 to +1760.0°C	0.1 K	ZA9000FSS
PtRh13-Pt (R)	0.0 to +1760.0°C	0.1 K	ZA9000FSR
PtRh30-PtRh6 (B)	+400.0 to +1800.0°C	0.1 K	ZA9000FSB
AuFe-Cr (A)	-270.0 to +60.0°C	0.1 K	ZA9000FSA

ALMEMO® Connector with integrated cold junction sensor for all thermocouples



For especially exacting applications demanding the highest possible level of precision or performed under unfavorable conditions (e.g. subject to thermal irradiation)

Programming:

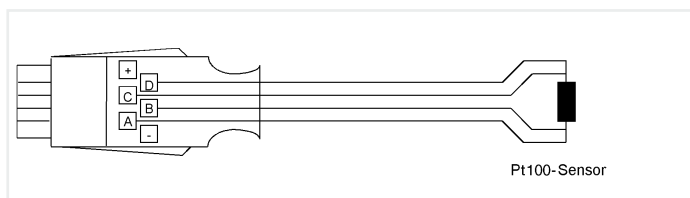
1st channel, NTC, integrated cold junction sensor, resolution 0.01 K

2nd channel, thermocouple, resolution 0.1 K; please specify type !

Types:

Model	Meas. Range	Resolution	Order no.
NiCr-Ni (K)	-200.0 to +1370.0°C.	0.1 K	ZA9400FSK
NiCroSil-NiSil (N)	-200.0 to +1300.0°C.	0.1 K	ZA9400FSN
Fe-CuNi (L)	-200.0 to +900°C.	0.1 K	ZA9400FSL
Fe-CuNi (J)	-200.0 to +1000°C.	0.1 K	ZA9400FSJ
Cu-CuNi (T)	-200.0 to +400°C.	0.1 K	ZA9400FST
Cu-CuNi (U)	-200.0 to +600.0°C	0.1 K	ZA9400FSU
PtRh10-Pt (S)	0.0 to +1760.0°C	0.1 K	ZA9400FSS

ALMEMO® Connector for Pt100 Sensors/Pt1000 Sensors



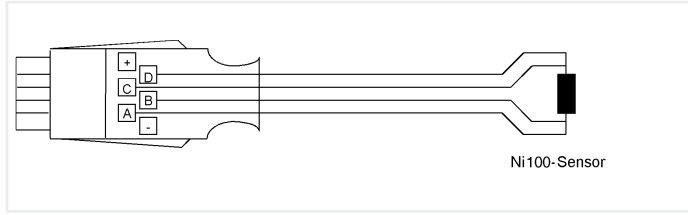
Types:

Model	Meas. Range	Resolution	Order no.
Pt100 4-Leiter	-200.0 to +850.0°C	0.1 K	ZA9030FS1
Pt100 4-Leiter	-200.0 to +400.0°C *	0.01 K	ZA9030FS2
Pt1000 4-Leiter	-200.0 to +850.0°C *	0.1 K	ZA9030FS4
Pt1000 4-Leiter	-200.0 to +400.0°C *	0.01 K	ZA9030FS5
Pt100 4-Leiter	-8 to +65.000°C	0.001 K (for ALMEMO® 2690-8 or higher)	ZA9030FS7

* Data may vary depending on device; (see data sheet per device)

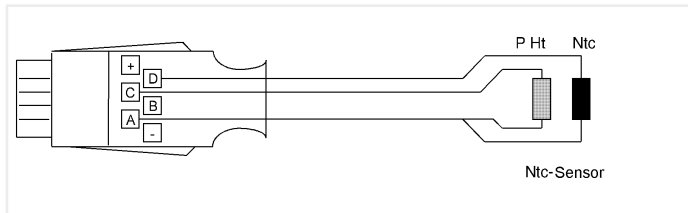
Input connectors and adapter cables

ALMEMO® Connector for Ni100 Sensors/Ni1000 Sensors



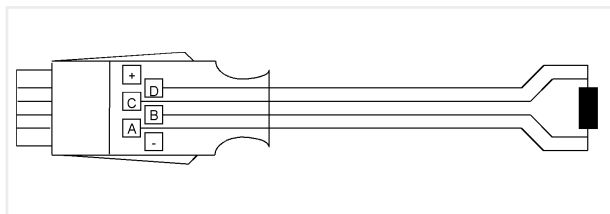
Types:			Order no.
Model	Meas. Range	Resolution	
Ni100	-60.0 to +240.0°C	0.1 K	ZA9030FS3
Ni1000	-60.0 to +240.0°C	0.1 K	ZA9030FS6

ALMEMO® Connector for Ntc Sensors



Types:			Order no.
Model	Meas. Range	Resolution	
Ntc Typ N	-50.0 to +125.0°C	0.01 K	ZA9040FS
2xNtc Typ N	-50.0 to +125.0°C	0.01 K no electrical isolation	ZA9040FS2

ALMEMO® Connector for Resistance



Technical Data ZA9003SS4:

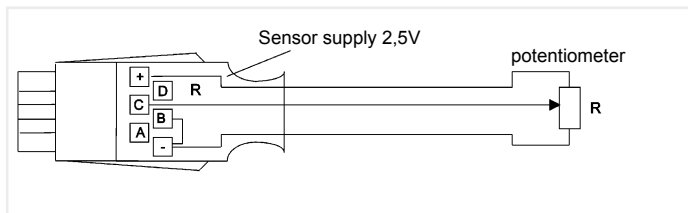
Connection	2-wire
Linearization accuracy:	±0,2 % ± 0,02 kOhm
	Linearization is saved in the ALMEMO® connector; (this is not available with ALMEMO® 2450, 8390)

Types:			Order no.
Model	Meas. Range	Resolution	
Ohm	0.00 to 500.00	0.01 Ω*	ZA9003FS
Ohm	0.0 to 5000.0*	0.1 Ω*	ZA9003FS2
kOhm	0 to 110.00 kOhm	0.01 kOhm	ZA9003SS4

* Data may vary depending on device; (see data sheet per device)

Input connectors and adapter cables

ALMEMO® Connector for Potentiometer pickoffs



Technical Data

Sensor supply:	2.5 V
Temperature coefficient:	< 50 ppm/K

Types:

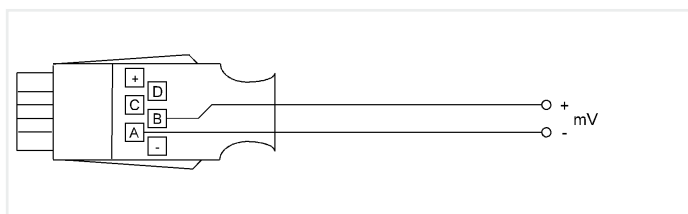
Model	Meas. Range	Resolution
2.6 V DC Differenz	-2.6 to +2.6*	0.1 mV

* Data may vary depending on device; (see data sheet per device)

Order no.

ZA9025FS3

ALMEMO® Connector for Voltage Millivolt



Types:

Model	Meas. Range	Resolution
55 mV DC	-10.0 to +55.0	1 μ V
26 mV DC	-26.0 to +26.0	1 μ V
260 mV DC	-260.0 to +260.0	10 μ V

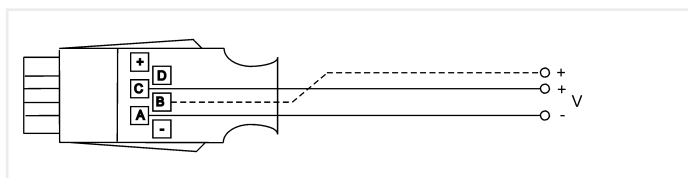
Order no.

ZA9000FS0

ZA9000FS1

ZA9000FS2

ALMEMO® Connector for Volt DC



Technical Data

Accuracy divider:	only 5.5 / 26 V connector, $\pm 0.1\%$ of measured value
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Types:

Model	Meas. Range	Resolution
2.6 V DC	-2.6 to +2.6*	0.1 mV
5.5 V DC (divider 100:1)	-1.0 to 5.5	0.1 mV
26 V DC (divider 100:1)	-26.0 to +26.0	1 mV
2 mal 26 V DC (2 x divider)	-26.0 to +26.0	1 mV no electrical isolation

Order no.

ZA9000FS3

ZA9602FS4

ZA9602FS

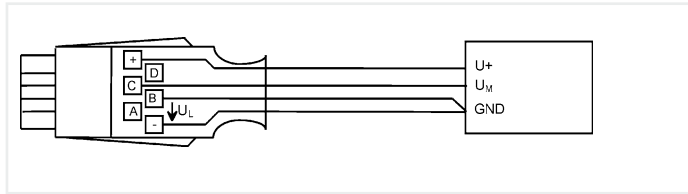
ZA9602FS2

* Data may vary depending on device; (see data sheet per device)

Input connectors and adapter cables

ALMEMO® Connector for DC voltage difference millivolts / volt

for sensors / transmitters, Supply from ALMEMO® device



Technical Data

Sensor supply	(for voltage see technical data of ALMEMO® device)
Accuracy divider:	only 26V connector ±0,1% of measured value

Types:

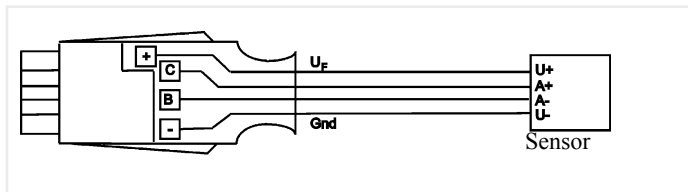
Model	Meas. Range	Resolution	Order no.
55 mV DC	-10.0 to +55.0	1 µV	ZA9000FS0D
26 mV DC	-26.0 to +26.0	1 µV	ZA9000FS1D
260 mV DC	-260.0 to +260.0	10 µV	ZA9000FS2D
2.6 V DC	-2.6 to +2.6*	0.1 mV	ZA9000FS3D
26 V DC (Teiler 100:1)	-26.0 to +26.0	1 mV	ZA9602FS3

(Connection diagram for connectors with 4 clamps, see below)

* Data may vary depending on device; (see data sheet per device)

ALMEMO® Connector for DC Millivolt / Volt Differential

for sensors / transmitters, Supply : 12 V from the ALMEMO® device



Technical Data

Sensor supply U_F :	12.2 ... 12.5V (15V on request)
Device voltage U_G :	8 ... 12 V
Output current:	100mA at $U_G = 9 ... 12V$
Accuracy divider:	only 26V connector ±0,1% of measured value

Types:

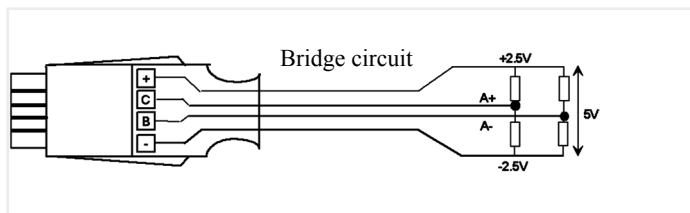
Model	Meas. Range	Resolution	Order no.
55mV DC	-10.0 to +55.0	1 µV	ZA9600FS0V12
26mV DC	-26.0 to +26.0	1 µV	ZA9600FS1V12
260mV DC	-260.0 to +260.0	10 µV	ZA9600FS2V12
2.6V DC	-2.6 to +2.6*	0.1 mV	ZA9600FS3V12
26V DC	-26.0 to +26.0	1 mV	ZA9602FS3V12

* Data may vary depending on device; (see data sheet per device).

Input connectors and adapter cables

ALMEMO® Connector for measuring bridges, millivolt / volt differential

With zero-symmetrical voltage supply of ± 2.5 V stabilized from the ALMEMO® device



Technical Data

Sensor supply

Voltage U_F :	$5V \pm 0.05V$
Temperature coefficient:	$<50\text{ppm}/^\circ\text{C}$
Output current:	max. 100mA
Ruhestrom:	approx. 3 mA

new:

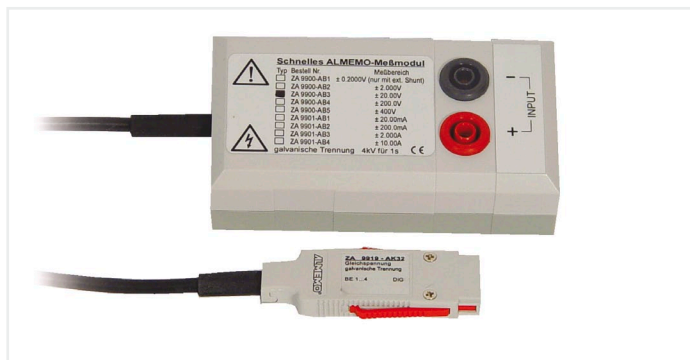
Energy saving	So long as the measuring point is not selected, the bridge voltage remains switched OFF.
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Types:

Model	Meas. Range	Resolution	Order no.
55mV DC	-10.0 to +55.0	1 μV	ZA9105FS0
26mV DC	-26.0 to +26.0	1 μV	ZA9105FS1
260mV DC	-260.0 to +260.0	10 μV	ZA9105FS2
2.6V DC	-2.6 to +2.6*	0.1 mV	ZA9105FS3

* Data may vary depending on device; (see data sheet per device)

ALMEMO® Measuring Module for DC Voltage, with Electrical Isolation, 4kV



Technical Data

see Chapter Electrical variables

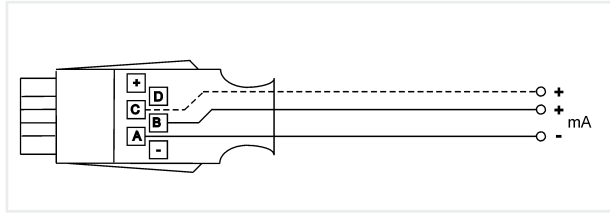
Types:

Measuring range	Resolution	Overload	Internal resistance	Order no.
± 2.000 V	0.001V	400 V	800 k Ω	ZA9900AB2
± 20.00 V	0.01V	500 V	1 M Ω	ZA9900AB3
± 200.0 V	0.1V	500 V	1 M Ω	ZA9900AB4
± 400 V	1V	1000 V	4 M Ω	ZA9900AB5

DAkKS/DKD- or Factory calibration KE90xx, electrically, for digital measuring module, see Chapter Calibration

Input connectors and adapter cables

ALMEMO® Connector for DC Current mA



Technical Data

Accuracy shunt: $\pm 0,1\%$ of measured value

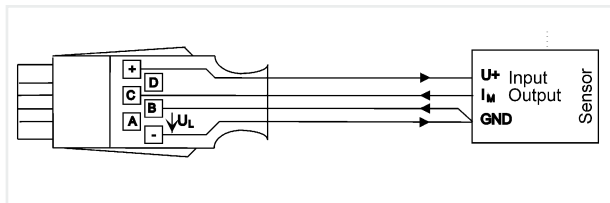
Types:

Model	Meas. Range	Resolution	Order no.
32 mA DC	-32.0 to +32.0*	1 μ A	ZA9601FS1
4/20 mA DC	0 to 100%	0.01 %	ZA9601FS2
2 mal 32 mA DC	-32.0 to +32.0*	1 μ A no electrical isolation	ZA9601FS3
2 mal 4/20 mA DC	0 to 100%	0.01 % no electrical isolation	ZA9601FS4

* Data may vary depending on device; (see data sheet per device)

ALMEMO® Connector for DC mA Differential

for sensors / transmitters, Supply from the ALMEMO® device



Technical Data

Sensor supply (for voltage see technical data of ALMEMO® device)

Accuracy shunt: $\pm 0,1\%$ of measured value

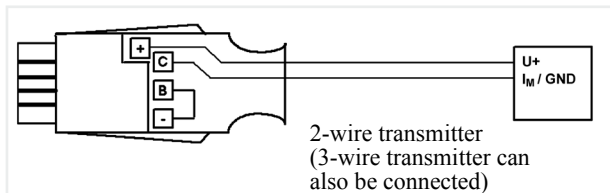
Types:

Model	Meas. Range	Resolution	Order no.
32 mA DC	-32.0 to +32.0*	1 μ A	ZA9601FS5
4/20 mA DC	0 to 100%	0.01 %	ZA9601FS6

* Data may vary depending on device; (see data sheet per device)

ALMEMO® for DC mA Differential

for sensors / transmitters, Supply 12V from the ALMEMO® device



Technical Data

Sensor supply U_F : 12,2 ... 12,5V

Device voltage U_G : 8 ... 12V

Output current: 100mA at $U_G = 9 \dots 12V$

Accuracy shunt: $\pm 0,1\%$ of measured value

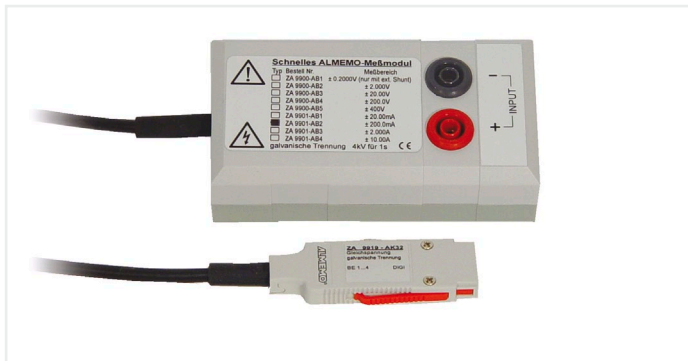
Types:

Model	Meas. Range	Resolution	Order no.
32mA DC	-32.0 to +32.0*	1 μ A	ZA9601FS5V12
4-20mA DC	0 to 100%	0.01 %	ZA9601FS6V12

* Data may vary depending on device; (see data sheet per device)

Input connectors and adapter cables

ALMEMO® Measuring Module for DC, with Electrical Isolation, 4kV



Technical Data

see Chapter Electrical variables

Types:

Measuring range	Resolution	Overload	Internal resistance	Order no.
±20.00 mA	0.01mA	0.1 A*	10 Ω	ZA9901AB1
±200.0 mA	0.1mA	1 A*	1 Ω	ZA9901AB2
±2.000 A	0.001A	10 A*	0.1 Ω	ZA9901AB3
±10.00 A	0.01A	20 A*	0.01 Ω	ZA9901AB4

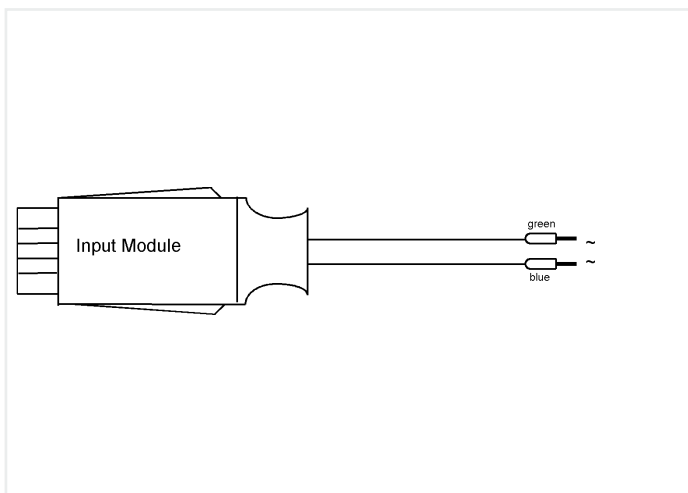
*Without fuse, overload condition only up to 1 minute maximum

DC via external shunt:

±200.0 mV	0.1mV	40 V	50 kΩ	ZA9900AB1
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DAkS/DKD- or Factory calibration KE90xx, electrically, for digital measuring module, see Chapter Calibration

ALMEMO® Adapter Cable for AC Voltage



Technical Data

Frequency range: 50 Hz to 10 kHz

Accuracy: ± 0.2% of final val. ± 0.5% of meas. val.
(40Hz ... 2kHz sinusoidal),

Crest factor: 3 (add. error 0.7%), 5 (add. error 2.5%)



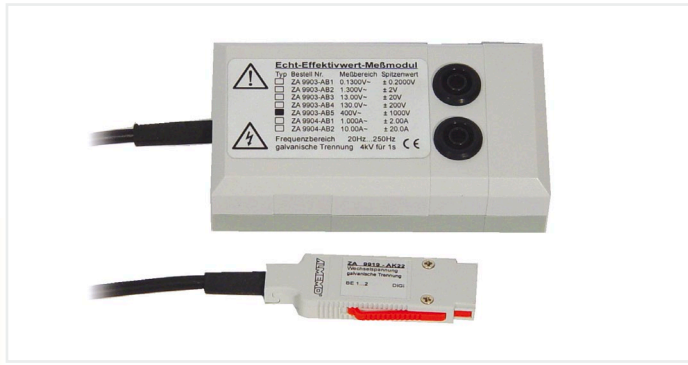
NEVER connect voltages higher than 50V!
DANGER!

Types:

Meas. Range	Resolution	Order no.
5 to 260mV _{eff}	0.1 mV	ZA9603AK1
0.05 to 2.6V _{eff}	0.001 V	ZA9603AK2
0.5 to 26.0V _{eff}	0.01 V	ZA9603AK3

Input connectors and adapter cables

ALMEMO® Measuring Module for AC Voltage, with Electrical Isolation, 4kV



Technical Data

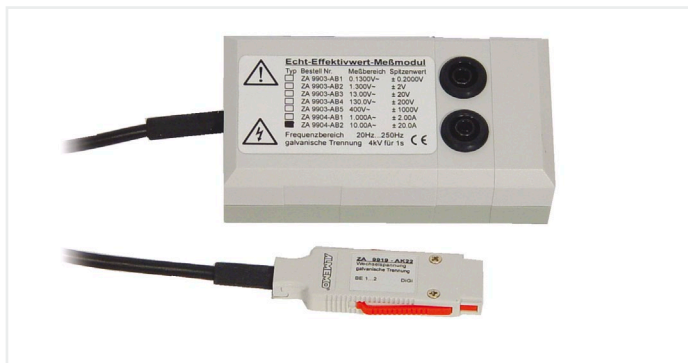
see Chapter Electrical variables

Types:

Meas. range	Resolution	Peak	Overload	Internal resistance	Order no.
130.0mV _{eff}	0.1mV	0.2V	400V	0.5MΩ	ZA9903AB1
1.300V _{eff}	1mV	2V	400V	0.8MΩ	ZA9903AB2
13.00V _{eff}	10mV	20V	500V	1MΩ	ZA9903AB3
130.0V _{eff}	0.1V	200V	500V	1MΩ	ZA9903AB4
400V _{eff}	1V	1000V	1000V	4MΩ	ZA9903AB5

DAkKS/DKD- or Factory calibration KE90xx, electrically, for digital measuring module, see Chapter Calibration

ALMEMO® Measuring Module for AC, with Electrical Isolation, 4kV



Technical Data

see Chapter Electrical variables

Types:

Order no.

Messbereich	Auflösung	Spitzenwert	Überlastung	Innenwiderstand	Order no.
1.000A _{eff}	1mA	2A	10A*	0.10Ω	ZA9904AB1
10.00A _{eff}	10mA	20A	20A*	0.01Ω	ZA9904AB2

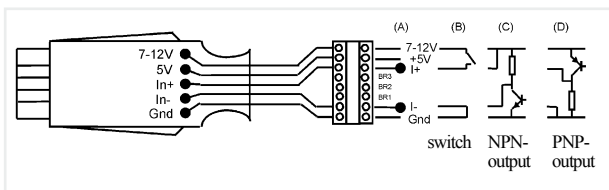
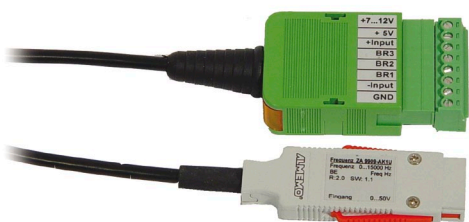
*Without fuse, overload condition only up to 1 minute maximum

DAkKS/DKD- or Factory calibration KE90xx, electrically, for digital measuring module, see Chapter Calibration

Input connectors and adapter cables

ALMEMO® Adapter Cable for Frequency / Pulse / Rotational Speed

for sensors, Supply : 5 V or direct from ALMEMO® device



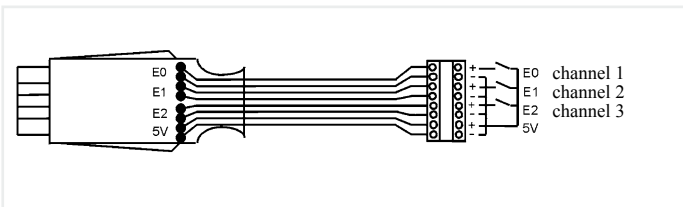
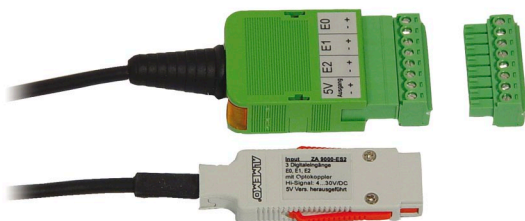
Technical Data

Frequency range:	0 to 15000 Hz (Resolution 1 Hz) 0 to 3200.0 Hz (Resolution 0.1 Hz)
Speed range:	8 to 32000 rpm (Resolution: 1 rpm)
Max. pulse count:	65000
Pulse length:	> 50 ms
Input voltage	4 to 40 V, square-wave via optocoupler
Current consumption:	3 mA
Sensor supply	5 V or direct from ALMEMO® device (for voltage see technical data of ALMEMO® device)
Option V12	
Sensor supply:	13.5V ±0.5V
Output current:	100mA at $U_G = 12V$ 50mA at $U_G = 9V$ 20mA at $U_G = 7V$ ($U_G =$ device voltage)

Types: (Cable lengths, 1.5 meters)

Model	Meas. Range	Resolution	Order no.
Frequenz	0 to 15000 Hz	1 Hz	
Frequenz	0 to 3200,0 Hz	0.1 Hz (can, by inserting wire jumper, be switched to)	ZA9909AK1U
Impulse / Zyklus	0 to 65000 Imp	1 Imp	ZA9909AK2U
Drehzahl	8 to 32000 UpM	1 UpM	ZA9909AK4U
Option sensor supply 12 V			OA9909V12

ALMEMO® Adapter Cable for Digital Input Signals



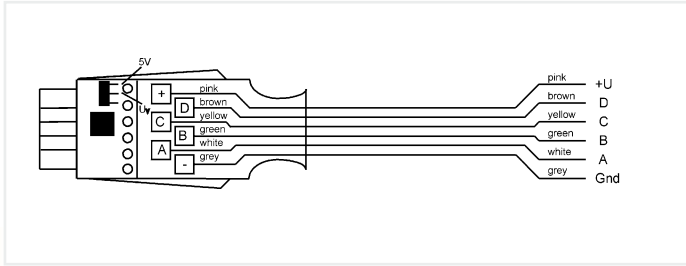
Types: (cable length, 1.5m each)

Order no.
ZA9000ES2
ZA9000EK2

3 digital inputs, (optocoupler), for floating contacts, 5V auxiliary voltage led out
4 digital inputs, electrically isolated (optocoupler) for external voltage, 4 to 30 V

Input connectors and adapter cables

ALMEMO® Universal Adapter Cable with Free Ends



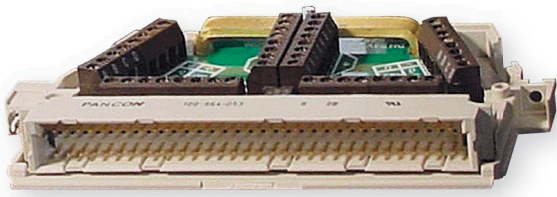
Types:

The ALMEMO® universal connector ZA 9000-FS is also available with connecting cable and free ends, as adapter cable ZA9000AK. The sensor supply voltage is present on terminal U+; it is supplied by the ALMEMO® device (sensor supply voltage 5 V, can be stabilized on request). Connecting cable : 8-wire, 8 x 0.14 mm², black, Length 1.5 m The wiring diagram and color code of the wires are consistent for all ALMEMO® sensors and cables, so that any pin configuration can be quickly and easily identified.

Order no.

ZA9000AK

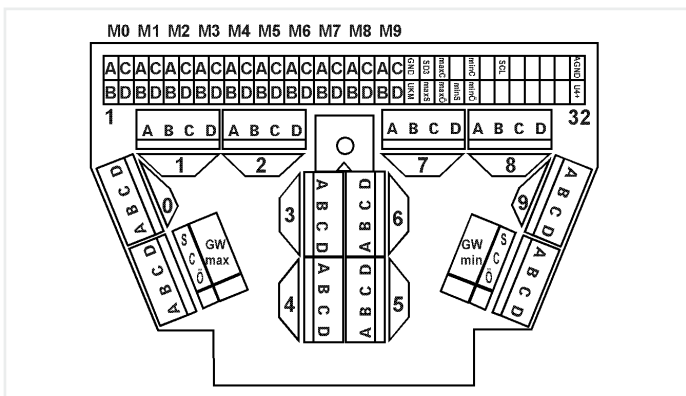
ALMEMO® 10-Fold MU Connector for ALMEMO® Plug-In Boards with 64-Pin Spring Contact Strip



NOT suitable for sensors needing interface circuitry (e.g. 26 V, AC voltage, mA, humidity sensors, rotating vanes, frequency, pulse, rotational speed)
no sensor supply possible)



The current MU connector version, ZA5690MU, can only be used in conjunction with the new ALMEMO® 5690 systems.
The old MU connector version, ZA5590MU, can of course be used in conjunction with the old ALMEMO® 5590/5990 systems but is subject to certain restrictions with the current 5690 systems (e.g. only 1 measuring channel per input, no multi-point adjustment or connector linearization)



Types:

ALMEMO® 10-fold connector (64-pin) with EEPROM sensor memory for connecting 10 sensors; on request pre-programmed to your specifications for Data acquisition systems ALMEMO® 5690 (not for ALMEMO® 5590 / 5990)
For Data acquisition systems ALMEMO® 5590 und 5990

Order no.

ZA5690MU

ZA5590MU

Input connectors and adapter cables

ALMEMO® Connector Adapter Cable, Digital Input of Third Party Device to ALMEMO® Device Type ZA 1000A KSW / ZAD 919A Kxx



Existing equipment incorporating a digital interface can, thanks to our flexible ALMEMO® system, continue being used. For this purpose, we can offer you the following service :

1. We program a device type protocol for you, which matches the output interface of your device.
2. We fit the interface cable for your device with the matching ALMEMO® connector.

Description:

- Data acquisition from external devices with digital interface and integration in the data acquisition with ALMEMO® devices.
- The digital connector of the adapter cable provides an electrically isolated serial interface and includes an interface processor for protocol conversion.
- Value-adding to existing measuring technology at a very interesting price-performance ratio.

Examples:

- Scales and weighing equipment
- Dial gauges and displacement transducers
- Multimeters
- Incremental displacement transducers
- Flue gas analysers

Types:

For the purposes of programming the interface, please provide us with a detailed description of the output interface of the third-party device you want to have integrated, or a matching cable, or a connector including the pin configuration, plus the third-party device itself for the purposes of testing and checking.

Interface programming for the device type protocol of the device to be integrated
ALMEMO® connector adapter cable

Order no.

ZA1000AKSW
ZAD919AK