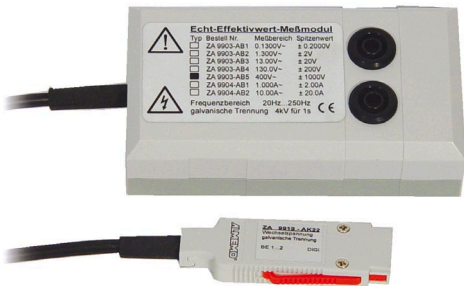


Input connectors and adapter cables

ALMEMO® Measuring Module for AC Voltage, with Electrical Isolation, 1kV

06/2018 • We reserve the right to make technical changes.



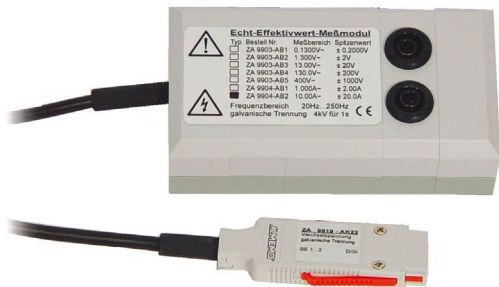
Technical Data

see Chapter Electrical variables

Types:					Order no.
Meas. range	Resolution	Peak	Overload		Internal resistance
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- or Factory calibration KE90xx, electrically, for digital measuring module, see Chapter Calibration.
DAkkS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

ALMEMO® Measuring Module for AC, with Electrical Isolation, 1kV



Technical Data

see Chapter Electrical variables

Types:					Order no.
Measuring range	Resolution	Peak	Overload	Internal resistance	
1.000A _{eff}	1mA	±2A	±10A*	0.10 Ω	ZA9904AB1
10.00A _{eff}	10mA	±20A	±20A*	0.01 Ω	ZA9904AB2
20.0 A _{eff}	0.1 A	±30 A	±30 A*	0.002 Ω	ZA9904AB3

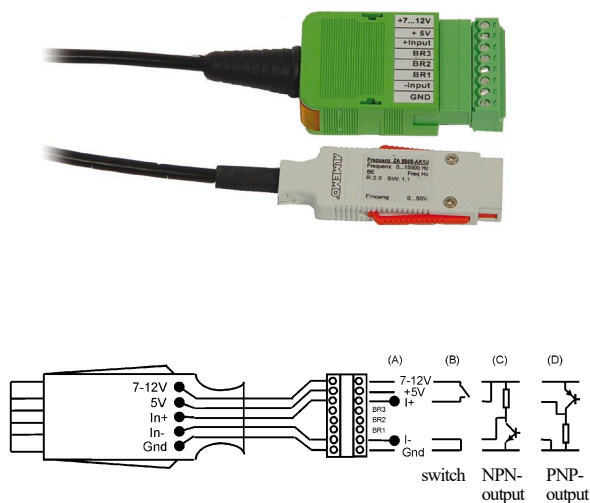
*Without fuse, overload condition only up to 1 minute maximum

DAkkS- or Factory calibration KE90xx, electrically, for digital measuring module, see Chapter Calibration.
DAkkS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

Input connectors and adapter cables

ALMEMO® Adapter Cable for Frequency / Pulse / Rotational Speed

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



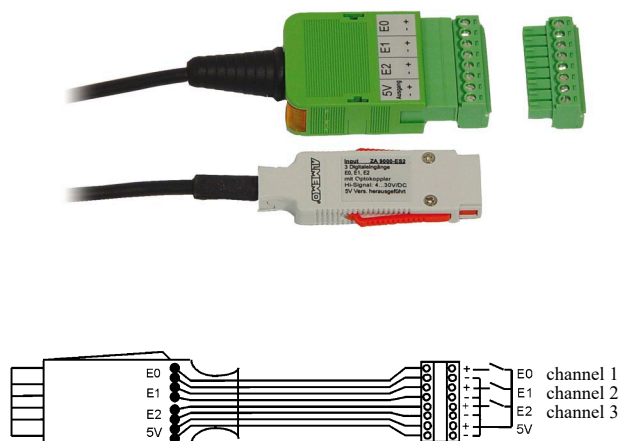
Technical Data

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.
Frequency	0 to 15000 Hz	1 Hz	
Frequency	0 to 3200,0 Hz	0.1 Hz (can, by inserting wire jumper, be switched to)	ZA9909AK1U
Pulses / Cycle	0 to 65000 Imp	1 Imp	ZA9909AK2U
Speed	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)

Types	Order no.
3 digital inputs, (optocoupler), for floating contacts, 5V auxiliary voltage led out	ZA9000ES2
4 digital inputs, electrically isolated (optocoupler) for external voltage, 4 to 30 V	ZA9000EK2