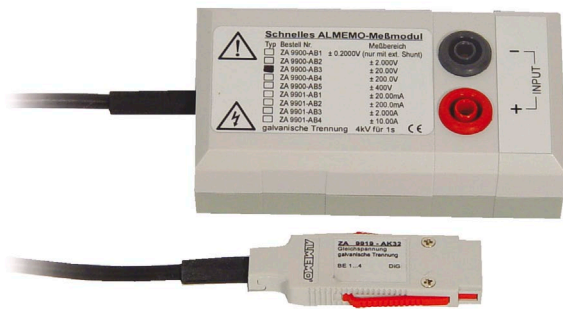


## ALMEMO<sup>®</sup> Measuring Modules for DC Voltage and DC Current ZA 9900 AB / ZA 9901 AB



- Acquisition of the momentary, maximum, minimum and average value, plus transferring data of each measuring point scan to the ALMEMO<sup>®</sup> device.
- DC voltage or DC current signal are scanned with 1kHz.
- Pure digital data transmission to the measuring instrument.
- Connector sockets electrically isolated and overvoltage-protected.

### Technical Data

Accuracy:	0.1% of fin. val. ±2 digits for DC Current 20 A: ± 4 digits	Housing:	polystyrene, dimensions L100 x W54 x H31mm
Sampling rate:	1kHz	Sockets:	touchproof, Ø 4mm
Resolution:	12bit, ±2048 digits	Operating voltage:	6 ... 14V through ALMEMO <sup>®</sup> device
Meas. period/transient time:	0.1s	Current consumption:	< 40mA (connector and module)
Meas. cycle, maximum:	14h		
Electrical isolation:	1kV permanent, 4kV for 1s		
Nominal conditions	23 °C ±2 K, 10 to 90 % r.H. (non-condensing)		

- New:** Digital ALMEMO<sup>®</sup> D7 measuring plug with galvanic isolation up to 50 V, see chapter “Input connectors”  
Dynamic measurement of DC voltage up to 20 V or DC up to 20 mA.
- Fast measurement with up to 1000 mops.
  - Or high resolution of up to 200 000 digits.
  - Accuracy independent from the measuring instrument.

### Types (incl. touchproof connecting cable)

### Order no.

#### DC Voltage:

Measuring range	Resolution	Overload	Internal resistance	
±2.000 V*	0.001V	±400 V	800 kΩ	<b>ZA9900AB2</b>
±20.0 V	0.01V	±500 V	1 MΩ	<b>ZA9900AB3</b>
±200.0 V	0.1V	±500 V	1 MΩ	<b>ZA9900AB4</b>
±400 V	1V	±1000 V	4 MΩ	<b>ZA9900AB5</b>

#### DC Current:

Measuring range	Resolution	Overload	Internal resistance	
±20.00 mA	0.01mA	±0.1 A*	10 Ω	<b>ZA9901AB1</b>
±200.0 mA	0.1mA	±1 A*	1 Ω	<b>ZA9901AB2</b>
±2.000 A	0.001A	±10 A*	0.1 Ω	<b>ZA9901AB3</b>
±10.00 A	0.01A	±20 A*	0.01 Ω	<b>ZA9901AB4</b>
±20.0 A	0.1 A	±30 A*	0.002 Ω	<b>ZA9901AB5</b>

\*Without fuse. overload condition only up to 1 minute maximum

#### DC via external shunt:

±200.0 mV	0.1mV	±40 V	50 kΩ	<b>ZA9900AB1</b>
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DAkKs or factory calibration KE90xx electrical for digital measuring module (see chapter Calibration certificates).  
DAkKs calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.