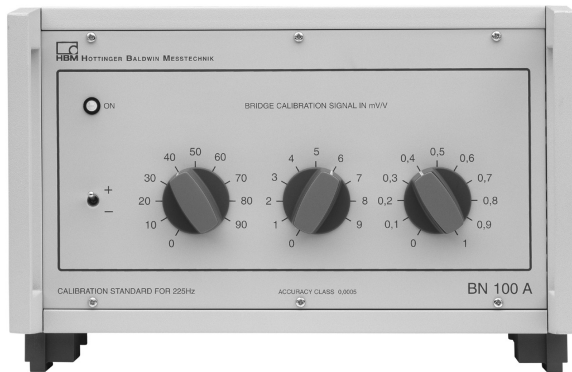


# BN100A

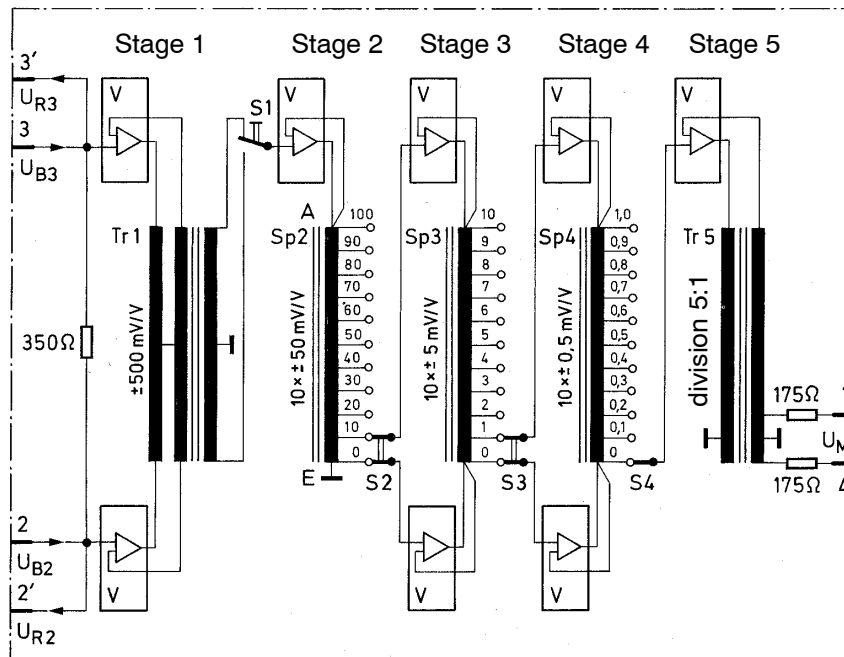
## Bridge Calibration Unit



### Special features

- High-precision simulation of defined output signals of strain-gauge full-bridge transducers
- Calibration signal adjustable in 0.1 mV/V steps in the range from -100 mV/V to +100 mV/V
- Accuracy class 0.0005
- For transducer excitation with 225 Hz carrier frequency

### Block diagramm



## Specifications

Type		BN100A
Accuracy class		0.0005
Calibration signal	mV/V	-100...+100
Steps	mV/V	0.1
Calibration error <sup>1)</sup> , related to 2 mV/V	%	< 0.0005
Step error, related to the specific step value	%	0.0003
Calibration signal deviation on changing polarity, related to 2 mV/V	%	0.0004
Output noise voltage in permissible frequency range	nV/√Hz	< 20
Nominal temperature range	°C	+15...+30
Permissible ambient temperature range	°C	0...+50
Storage temperature range	°C	-20...+60
Nominal value of the bridge excitation voltage (rms value)	V	10
Permissible bridge excitation voltage <sup>2)</sup> (rms value)	V	1...15
Nominal frequency of the bridge excitation voltage	Hz	225 ± 2
Permissible frequency of the bridge excitation voltage	Hz	225 ± 10
Input resistance	Ω	350 ± 4
Output resistance	Ω	350 ± 4
Dimensions (w x h x d)	mm	255 x 171 x 367
Weight	kg	7.2
Power supply voltage (50 Hz)	V	230 (115 V) ~ ± 10 %

1) Related to socket Bu1 of the BN100A, with the measuring instrument connected in a 6-wire circuit.

2) The errors in the permissible range can be twice as high as at the nominal value.

### Accessories, included in scope of delivery:

KAB0238A-3, 3 m long, 6 cores (MS3106A16S-1P / MS3106A16S-1S)

KAB133A (MS3101A16S-1S / DB-15P)

The bridge calibration unit BN100A is only available in conjunction with a DKD calibration certificate for voltage ratio (2 mV/V calibration range, 5 V excitation voltage). This calibration is not included in the scope of supply.

Order-no.: K-CAL-VD or  
K-CAL-VZ

Modifications reserved.

All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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measurement with confidence