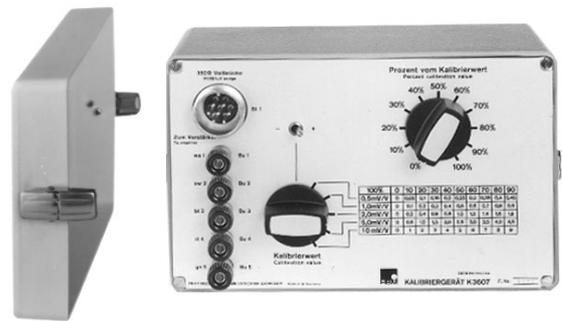


DATA SHEET

# K3607 Calibration Unit

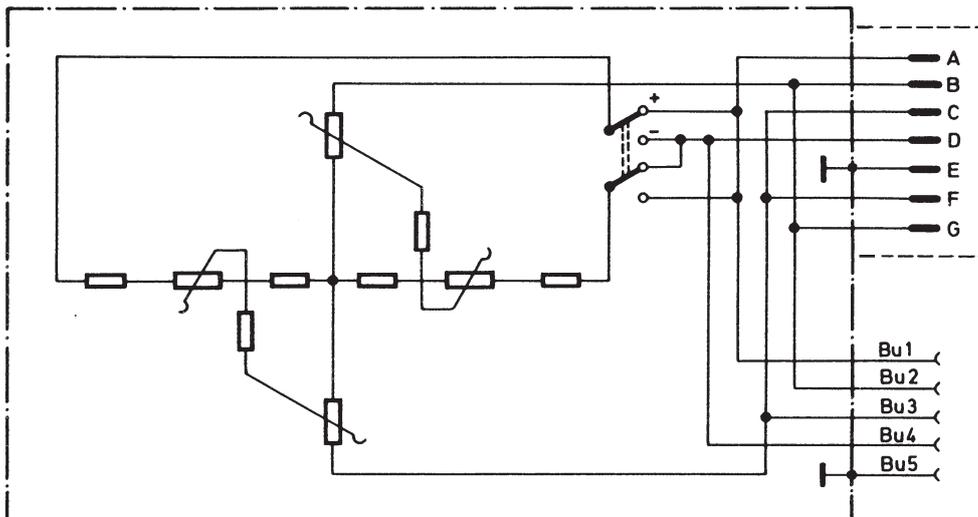
## SPECIAL FEATURES

- Suitable for simulating defined output signals of strain gauge fullbridges
- 30 calibration signals between 0.05 mV/V and 10 mV/V
- Absolute zero point stability with equivalent star circuit
- Suitable for transducers supplied with dc voltage and carrier frequency up to 5 kHz
- Mobile application for many measuring chains



## CONNECTION DIAGRAM

MS 3102A 16S-1P



## SPECIFICATIONS

Type		K3607
Accuracy class		0.025 <sup>1)</sup>
Permissible frequency range of external excitation voltage	Hz	0(DC)...5000 Hz
Strain gage equivalent resistance (full bridge)	Ω	350
Nominal value of supply range	V	4
Maximum permissible supply voltage	V	18
Calibration steps		
5 range steps	mV/V	0.5; 1; 2; 5; 10
11 percentage steps within the range in each case	%	0; 10; 20...100
Polarity switch <sup>2)</sup>		positive or negative output signal as desired
Step error of the range steps, related to the full scale value of the range in each case	%	<±0.025
Step error of the percentage steps relative to the level value concerned	%	<±0.025
Absolute zero error	mV/V	<±0.0005 <sup>3)</sup>
Non-linearity relative to the full-scale value concerned	%	<±0.010
Temperature effect of the absolute calibration per 10 K, in the service temperature range	%	< 0.030
in the nominal temperature range	%	< 0.010
Nominal temperature range	°C	+10...+50
Service temperature range	°C	+10...+60
Storage temperature range	°C	-25...+70
Weight	kg	1
Dimensions (b x h x t)	mm	200 x 110 x 120

1) If carrier frequency 5 kHz is used, the accuracy class is 0.5

2) "positive" means strain at the bridge arm between Bu1 and Bu2 (between A and B on the Amphenol plug)

3) The signals of the 0% levels may deviate by up to 0.025% in relation to 2 mV/V (0.0005 mV/V). But this is not relevant to strain gage technology and can be eliminated by a zero balance of the measuring device.

### Accessories, included in scope of delivery

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

### Accessories, to be ordered separately

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

### Hottinger Brüel & Kjaer GmbH

Im Tiefen See 45 · 64293 Darmstadt · Germany  
Tel. +49 6151 803-0 · Fax +49 6151 803-9100  
www.hbkworld.com · info@hbkworl.com

Subject to modifications. All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.