

K3608

Calibration unit for measuring systems with S/G transducers

Special features

- Simulation of mechanical quantities influencing strain gauge transducers
- Transducer imitation for 350 Ω and 1000 Ω bridge resistance
- Calibration values adjustable in 5x11 steps from ±0.1 to ±100 mV/V
- Permissible frequency range for the external bridge excitation voltage: 0...5 kHz
- Accuracy class 0.0025 (see Technical data)





Technical Data

Туре		K 3608	
Accuracy class ¹⁾		0.0025	0.01
Permissible frequency range for the external excitation voltage	Hz	225600	DC, 1000 5000
Substitute for strain gauge full bridges, switchable	Ω	350 or 1000	
Nominal value of the excitation voltage	V	5	
Maximum permissible excitation voltage	V	10	
Calibration steps			
5 ranges	mV/V	1, 2; 5; 10; 100	
11 steps within the ranges	%	0; 10; 20;100	
Polarity switch		Positive ²⁾ or negative output signal	
Absolute calibration of the range span			
for the range of 2 mV/V at 23 $^{\circ}$ C [73 $^{\circ}$ F]	%	<±0.0025	<±0.01
Grading errors for the ranges			
related to the respective range full-scale-value	%	<±0.0025	<±0.01
Grading errors for the percent steps (Linearity deviation)			
related to the respective range full-scale-value	%	<±0.0025	
Temperature effect on the absolute calibration per 10K			
in the nominal temperature range	%	<0.0025	
Nominal temperature range	°C [°F]	+10+40 [+50+120]	
Service temperature range	°C [°F]	0+60 [+32+140]	
Storage temperature range	°C [°F]	-25+70 [-13+160]	
Supply voltage ⁴⁾	V	±19	
Dimensions (h x w x d)			
K 3608 calibration unit	mm	110 x 190 x 120	
Power supply	mm	50 x 95 x 57	
Weight, approx.			
K 3608 calibration unit	kg	1	
Power supply	kg	0.5	

1) Only for connection using the 6-wire technique

²⁾ Positive means: Measurement Node 1 changes its potential in the direction of Supply Node 2 (1

A, 2

B, 3

C and 4

D on the Amphenol connector) during unbalance

3) The signals for the 0 % steps may deviate by up to 0.025 % of the corresponding full range value. However, in strain-gauge technology this is not relevant and can be eliminated by zero balancing the measurement instrument.

⁴⁾ Supplied by the mains unit (included in scope of delivery, please see below)

Dimensions [1mm = 0.03937 inches]



Accessories, included in scope of delivery:

Kab0238A-3, connection cable, 3 m long, 6 cores, with MS plug and socket Power supply unit, mains voltage 230 V \pm 10 %, 45...60 Hz

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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