



Compact, lightweight, low-cost high performance Simultaneous output of voltage and current signals

- Excitation voltage, sensitivity, calibration value and frequency response are switchable.
- Auto balance function provided (WGA-100B-10/11/12)

The WGA-100B is a compact, lightweight and low-cost instrumentation amplifier suitable for measurement of load, pressure, torque and displacement in combination with strain gage transducers. Available in 2 types: manual balance and auto balance which is also possible with external contact, the WGA-100B can easily be changed in the excitation voltage, sensitivity, calibration value and frequency response by changing jumper connection. Simultaneous output of voltage and current signals is possible, no need for switchover.

●Compact, Low Cost

Models:

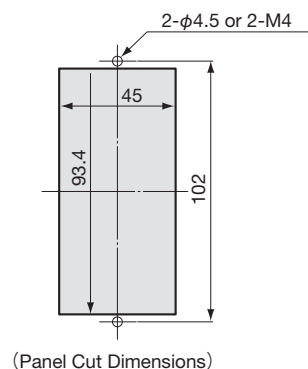
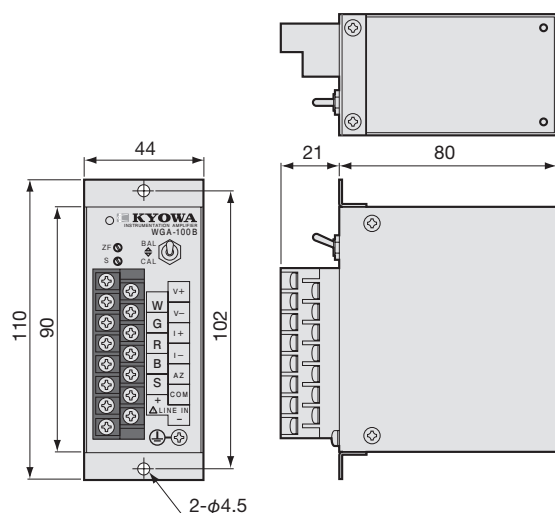
Model	Power Requirements	Balance Adjustment
WGA-100B-00	10 to 30 VDC, 3.5 W or less	Manual
WGA-100B-01	100 VAC $\pm 10\%$, 5 VA or less	
WGA-100B-02	200 VAC $\pm 10\%$, 8 VA or less	
WGA-100B-10	10 to 30 VDC, 3.5 W or less	Automatic
WGA-100B-11	100 VAC $\pm 10\%$, 5 VA or less	
WGA-100B-12	200 VAC $\pm 10\%$, 8 VA or less	

Specifications

Number of Measuring Channels :	1
Applicable Transducers :	Strain gage transducers
Applicable Bridge Resistance :	87.5 Ω to 350 Ω (Up to 4 transducers with bridge resistance 350 Ω can be connected in parallel. Bridge excitation voltage is limited to 5 V for transducers with bridge resistance 175 Ω or less)
Bridge Excitation :	10 or 5V DC, switchable by changing internal jumper connection
Rated Output :	Dual output
Voltage :	± 10 V (load resistance 2k Ω or more)
Current :	4 to 20 mA (load resistance 500 Ω or less), (corresponding to voltage output of 0 to 10 V)
Zero Adjustment Range :	± 1.5 mV/V, by trimmer or auto balance
Sensitivity Adjustment Range :	x1000 or x4000, switchable by changing internal jumper connection
	Adjustable between x1/1 and x1/4 by the trimmer
Calibration :	0.25, 0.5 or 1.0 mV/V, switchable by changing internal jumper connection
Frequency Response :	10, 30, 100 or 500 Hz, switchable by changing internal jumper connection
	Attenuation : -12 dB/oct.
Nonlinearity :	$\pm 0.02\%$ FS
Zero Stability :	$\pm 0.7 \mu V_{RM} / ^\circ C$
Sensitivity Stability :	$\pm 0.01\% / ^\circ C$
EMC :	Conforms to IEC61326-1(class A)
Safety Feature :	Conforms to IEC61010-1 (Installation category II pollution degree 2)
Operating Temperature/Humidity Range :	-10 to 50 $^\circ C$, 20 to 80% RH (noncondensing)
Power Supply :	Refer to table above.
Dimensions :	44(W) x 90(H) x 80(D) mm (excluding protrusions)
Panel Cut Dimensions :	45.0 x 93.4 mm
Weight:	Approx. 400 g

Optional Accessories	AC power cables P-23 (for 100 VAC), P-28 (for 200 VAC) DIN rail mounting fixture H-11223
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■Dimensions, Panel Cut Dimensions



DIN rail Mounting fixture included