WGA-650B

Instrumentation Amplifier

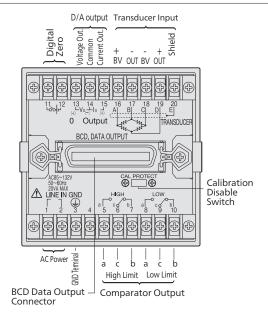


Compact Moderate Price

- •Wide no-load zero adjustment range (±2 mV/V)
- •High/low limit comparators (Relay contact output)
- •Indicated value is output in a voltage range of 0 to 10 V or in a current range of 4 to 20 mA.
- ●Indication range -1999 to 19999
- ●DIN size (96 x 96 mm) ensures easy installation.
- •Up to 4 transducers with 350 Ω bridge resistance connected in parallel.

The WGA-650B series is compact, moderate price instrumentation amplifiers enabling direct reading of physical quantities such as loads etc. in combination with a strain-gage transducer. All operations are performed with front-panel keys including high/low limit comparator keys. While all models in this series provide D/A converted signal output, models with additional digital output (BCD) are available.

Rear View (WGA-650B-1)



Terminal screw: M3

Types	Models	Power Supply
Standard	WGA-650B-0 M448	85 to 132 VAC
	WGA-650B-0 M449	170 to 264 VAC
With BCD output	WGA-650B-1 M448	85 to 132 VAC
	WGA-650B-1 M449	170 to 264 VAC

Equipment Incorporated

Specifications

Specifications			
Channels 1			
Applicable Transd			
	sducers with bridge resistance of 350 Ω		
	cers connectable in parallel)		
Measuring Range			
Bridge Excitation	10 VDC/2 VDC, switchable		
	ustment ±2 mV/V		
Analog adjustm	ent and digital adjustment in combination		
Calibration	Possible by inputting a numeric value or by applying		
	an actual load		
Display	-1999 to 19999 (Decimal point to be put anywhere.)		
	Character height 15.24 mm, red LED		
Sampling Speed	4 times/s		
Nonlinearity	Within ±(0.03% FS + 1 digit)		
Zero Stability	±0.5 μV _{RTI} / °C		
Sensitivity Stabilit	v ±0.0025% / °C		
High/Low Limit C	·		
	(High limit, low limit)		
Setting range:	-1999 to 19999		
	Relay contact output (1 transfer circuit for each point)		
	: 250 VAC, 0.5 A (Resistive load)		
Analog Filters	Cutoff frequencies: 1 Hz		
Smoothing	Moving averaging times: 2, 4, 8, and 16		
Sinootimig	Min. scale: 1, 2, 5, 10, 20, 50, and 100		
Zero Compensatio			
	pensation: Possible with external voltage signals		
Digital Zero com	(10 to 30 VDC)		
Automatic zero	compensation: Indication is made zero when the		
Automatic zero c	reading is in the setting range for		
	2 s or more.		
A dalina Tunatiana			
	Setting range -1999 to 19999		
Analog (D/A) out			
	V (Load resistance 2 k Ω or more)		
	scaling possible		
	mA (Load resistance 500 Ω or less)		
	ponds to voltage output of 0 to 10 V.		
	e between the output and case: 500 VAC for one minute		
BCD Output (WG)			
	olated open collector output; output logic selectable		
Driving capacity			
	5-digit BCD value, minus sign, OVER,		
	orint command (EOC)		
	0360 (DDK) or the equivalent		
	Transducer check, self-check		
Input Terminal Bo	ard M3 screw board (applicable crimp-style terminals		
	1.25-3A and 1.25-3B or the equivalent)		
Operating Tempe	rature -10 to 50°C		
	ity 20 to 85%RH (Non-condensing)		
Power Supply 85	to 132 or 170 to 264 VAC, 20 VA or less		

Dimensions 96 W x 96 H x 139 D mm (Excluding protrusions)

Weight Approx. 1.3 kg

Panel-cut Dimensions 92 x 92 mm

Standard Accessories Unit seal, AC power cable P-23 for 100 VAC, Instruction Manual

Optional Accessories

- AC power cable P-28 for 200 VAC
- Input cables U-33 to U-36
- U-33 (50 cm), U-34 (1 m), U-35 (2 m), U-36 (5 m)
- BCD output connector BCD-CONNE (57-30360 (DDK) or the equivalent)

