WGA-650B

Instrumentation Amplifier



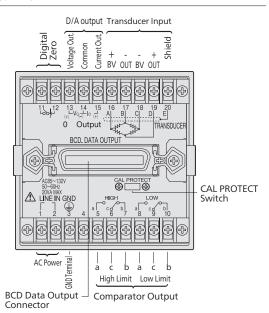


Compact Moderate price

- ●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

Types	Models	Power Supply
Standard	WGA-650B-0	100 to 127 VAC
	WGA-650B-0 A200	220 to 240 VAC
With BCD output	WGA-650B-1	100 to 127 VAC
	WGA-650B-1 A200	220 to 240 VAC

Equipment incorporated

Specifications

Applicable Transducers

Channels

Applicable Harisa	uccis	
	Strain-gage transducers (Bridge resistance of 350Ω)	
	(Up to 4 transducers connectable in parallel)	
Measuring Range	0 to 2.5 mV/V (5000 \times 10 ⁻⁶ strain)	
Bridge Excitation	10 VDC/2 VDC, switchable	
No-load Zero Adju	istment ±2 mV/V	
Analog adjustme	ent and digital adjustment in combination	
Calibration	inputting a numeric value	
	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)	
Stability	Zero point: ±0.5 μV _{RTI} / °C	
-	Sensitivity: ±0.0025% / °C	
High/Low Limit Co		
Setting points: 2 (High limit, low limit)		
Setting range:	-1999 to 19999	
Contact output:		
	250 VAC, 0.5 A (Resistive load)	
Analog Filters	Cutoff frequencies: 1 Hz	
Smoothing	Moving averaging times: 2, 4, 8, and 16	
Sinouthing	Min. scale: 1, 2, 5, 10, 20, 50, and 100	
Zero Compensatio		
	pensation: Possible with external voltage signals	
Digital Zero comp	(10 to 30 VDC)	
Automatic zero c	compensation: Indication is made zero when the	
7 latornatic zero c	reading is in the setting range for	
	2 s or more.	
Adding Functions	Setting range: -1999 to 19999	
Analog (D/A) outp		
	/ (Load resistance 2 k Ω or more)	
	scaling possible	
	mA (Load resistance 500 Ω or less)	
	onds to voltage output of 0 to 10 V.	
	e between the output and case: 500 VAC for one minute	
BCD Output (WGA		
Output mode:	Isolated open collector output; BCD output	
Dutata a sasa atta	logic selectable	
Driving capacity:		
Output signals:	5-digit BCD value, minus sign, OVER,	
	print command (EOC)	
Connector:	57-40360 (DDK) or the equivalent	
Check Functions	Transducer check, self-check	
Input Terminal Bo		
	1.25-3A and 1.25-3B or the equivalent)	
Operating Temper		
Operating Humidi		
Power Supply	100 to 127 VAC or 220 to 240 AC, 20 VA or less	
Dimensions	96 W x 96 H x 139 D mm (Excluding protrusions	
Weight	Approx. 1.3 kg	
Panel-cut Dimensi	ons 92 x 92 mm	
Standard Accessories	AC power cable (For 100 VAC) Instruction manual	

Optional Accessories

AC power cable P-28 (For 200 VAC)

Input cables

· U-33 (50 cm), U-34 (1 m), U-35 (2 m), U-36 (5 m)

Unit seal

BCD output connector BCD-CONNE (57-30360 (DDK) or the equivalent)