WGI-400A

Instrumentation Amplifier



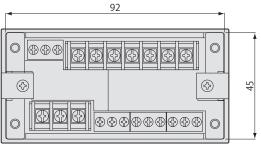
Compact, 48×96 mm (front surface) Wide measuring range ± 3.2 mV/V

- 3 sensitivity registration modes (actual load calibration, sensitivity-registered calibration, numerical valueregistered calibration)
- Selectable 4 high/low limit patterns in memory
- •Level test with desired set-value
- •Wide operating voltage range: 90 to 240 VAC or 10 to 30V DC (AC or DC selected when ordering)
- 3 optional functions: RS-232C, RS-485, BCD output

The WGI-400A is a compact general-purpose low-cost instrumentation amplifier providing basic functions required for measurement in combination with strain gage transducers. The wide input range ensures usage without worrying about initial value of transducer. Furthermore, it provides new functions such as switchable relative value memory patterns and preset value-based level test.

Dimensions





●Compact, General-Purpose ●Wide Input Range

Models

Model	Power supply	Model	Power supply
WGI-400A-00	AC operation with no optional function	WGI-400A-10	DC operation with no optional function
WGI-400A-01	AC operation with BCD output	WGI-400A-11	DC operation with BCD output
WGI-400A-02	AC operation with RS-232C	WGI-400A-12	DC operation with RS-232C
WGI-400A-03	AC operation with RS-485	WGI-400A-13	DC operation with RS-485

Specifications Measuring Section

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Number of Channels	: 1		
Applicable Transducers	: Strain gage transducers		
Applicable Bridge Re	sistance : 87.5 to 1000Ω		
Bridge Excitation :	2V DC, 30 mA or 4V DC, 50 mA, selectable		
Measuring Range :	±3.2 mV/V (Including zero adjustment range)		
Sampling Rate :	Approx. 50 times/sec.		
Resolution:	64000 counts/input range in both polarities		
Calibration Modes :	Actual load calibration, sensitivity-registered		
Calibration Wodes.	calibration, numerical value-registered calibration		
Indication Section	Calibration, Hurricheal value registered calibration		
Indication Range :	-9999 to +9999		
Nonlinearity:	Within±(0.1% FS ±1 digit)		
Zero Stability:	Within±0.5μV _{RTI} / °C Within±0.01% FS/°C		
Sensitivity Stability:			
Decimal Point :	Can be put anywhere.		
Zero Function :	Any value in the input range can be set to		
	digital zero; execution by key operation or		
	external contact signal		
Minimum Scale :	Selectable from 1, 2, 5, 10, 20, 50 or 100		
Moving Averaging Fu	unction : S electable from		
Zero Tracking:	By setting the time, width and operating range		
Zero Approximation	: A desired value can be preset to let the indicator read		
	0 for any signal in a range of 0 to the preset value.		
Adding Function:	Indicated value at the time of executing zero		
	compensation can be set to a desired value.		
Original value display	function: Enable to display input value in mV/V		
Level Test :	Possible with a desired value input		
Control Input	, , , , , , , , , , , , , , , , , , ,		
	nals : 4 (ZERO command, level test command and		
- turnser or impacoig.	2 pattern select commands)		
Control Output	2 pattern select commands,		
	gnals : 3 (HI, OK and LO)		
Output System :	Open collector		
Rated Output :	30V DC, 20 mA (resistive load)		
	ent : Based on high/low limits 1 (OK)		
Judgment Result :			
	ry Patterns : 4 patterns. switchable		
Analog Output			
Output Signal :	±10 V or 4 to 20 mA, switchable		
Nonlinearity:	Within±0.1% FS		
Scaling :	Can freely be set.		
Response Speed :	Approx. 0.25 sec.		
Others			
EMC: Co	nforms to IEC61326-1(class A)		
Safety Feature: Co	nforms to IEC61010-1		
(Ins	stallation category II pollution degree 2)		
Power Supply :	AC 90~240V, 50/60 Hz, or 10 to 30 VDC		
	(to be specified when ordering)		
Power Consumption	: Approx. 6 VA (AC operation),		
	approx. 8 W (DC operation)		
Operating Temperati	ure Range : -10 to 50℃		
Dimensions:	96(W) x 48(H) x 142(D) mm (with no option)		
Panel Cut Dimension			
Panel thickness :			
	0.8 to 5.0 mm		
Weight:	Approx. 500 g		
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Standard Accessories Unit seal. Instruction Manual

Optional Accessories

AC power cables P-23 (for 100 VAC), P-28 (for 200 VAC)

BCD output cable N-43

BCD output printer cable N-44