WGI-400A

Instrumentation Amplifier





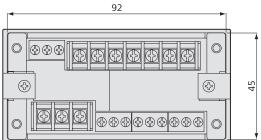
Compact, 48×96 mm (Front surface) Wide measuring range ±3.2 mV/V

- 3 sensitivity registration modes (Actual load calibration, sensitivity-registered calibration, numerical value-registered calibration)
- •Selectable 4 high/low limit patterns in memory
- •Level test with desired set-value
- Wide power supply voltage range:
 AC power supply (100 to 240 V)
 DC power supply (10 to 30 V) (Selectable)
- Option: RS-232C, RS-485, BCD output

The WGI-400A is a compact general-purpose moderate price 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





Models

Models	Options	Models	Options
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

Moscuring Coction	
Measuring Section Channels	1
	<u> </u>
	Strain-gage transducers
	stance 87.5 to 1000 Ω (350 Ω , 4 in parallel connection
Bridge Excitation	2 VDC, 30 mA or 4 VDC, 50 mA, switchable
Measuring Range	±3.2 mV/V (Including zero adjustment range)
Sampling Rate Resolution	Approx. 50 times/s
-	64000 counts/input range in both polarities
Calibration Modes	Actual load calibration, sensitivity-registered
Nucliantion Coation	calibration, numerical value-registered calibration
Indication Section	0000+0000
Indication Range	-9999 to +9999
Nonlinearity	Within ±(0.1% FS ±1 digit)
Stability	Zero point: Within ±0.5 μV _{RTI} / °C
	Sensitivity: Within ±0.01%/°C
Decimal Point	Put to anywhere possible
Zero Functions	Any value in the input range is set to
	digital zero; execution by key operation or
	external contact signal
Minimum Scale	Selectable from 1, 2, 5, 10, 20, 50 or 100
	Selectable from 0, 2, 4, 8, 16, 32, 64 or 128
Zero Tracking	By setting the time, width and operating range
Zero Approximation	A desired value is preset to let the indicator rea
	0 for any signal in a range of 0 to the preset valu
Adding Functions	Indicated value is set to a desired value
	(When executing zero compensation).
	Enable to display input value in mV/V
Level Test	Display of arbitrary values possible
Control Input	
Input Signals	4 (ZERO command, level test command and
	2 pattern select commands)
Control Output	
Output Signals	3 (HI, OK and LO)
Output Modes	Open collector
Rated Output	30 VDC, 20 mA (Resistive load)
Comparison/Judgmer	nt Based on high/low limits
Judgment Result	1 (OK)
Relative Value Memor	y Patterns 4 patterns, switchable
Analog Output	
Output Signals	±10 V or 4 to 20 mA, switchable
Nonlinearity	Within ±0.1% FS
Scaling	Set freely
Response Speed	Approx. 0.25 s
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Others	
Others EMC Directive	IEC61326-1 (Class A)
	IEC61326-1 (Class A) 100 to 240 VAC, or 10 to 30 VDC
EMC Directive	,
EMC Directive	100 to 240 VAC, or 10 to 30 VDC
EMC Directive Power Supply	100 to 240 VAC, or 10 to 30 VDC (To be specified when ordering)
EMC Directive Power Supply	100 to 240 VAC, or 10 to 30 VDC (To be specified when ordering) Approx. 6 VA (AC operation) Approx. 8 W (DC operation)
EMC Directive Power Supply Power Consumption	100 to 240 VAC, or 10 to 30 VDC (To be specified when ordering) Approx. 6 VA (AC operation) Approx. 8 W (DC operation)
EMC Directive Power Supply Power Consumption Operating Temperature	100 to 240 VAC, or 10 to 30 VDC (To be specified when ordering) Approx. 6 VA (AC operation) Approx. 8 W (DC operation) -10 to 50°C 96 W x 48 H x 144 D mm (With no option)
EMC Directive Power Supply Power Consumption Operating Temperature Dimensions	100 to 240 VAC, or 10 to 30 VDC (To be specified when ordering) Approx. 6 VA (AC operation) Approx. 8 W (DC operation) -10 to 50°C

Standard Accessories Instruction manual, unit seal
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