

Instrumentation Amplifier

Enables Checking Waveform through Easy Operation



WGA-900A

- ◆ The measurement waveform can be displayed.
- ◆ Touch-sensitive 3.5-inch STN color LCD ensures easy operation and monitoring.
- ◆ The measurement waveform can be recorded (optional SD card is necessary).
- ◆ Characters are large and easy to see.

Basic Specifications

Number of Measuring Channels: 1

Applicable Transducers: Strain-gage transducers

Applicable Bridge Resistance: 87.5 Ω to 1 kΩ (Up to four 350 Ω transducers can be connected in parallel.)

TEDS Compatibility:

Applicable transducers: Should have the information according to IEEE template No. 33. (Cable length: 30 m or less)

Bridge Excitation: 10 or 2 VDC

Input Range: ±3.2 mV/V (including zero adjustment range)

Nonlinearity: Within ±(0.02% FS + 1 digit)

Thermal Zero Stability: Within ±0.25 μV_{RTI}/°C

Thermal Sensitivity Stability: Within ±0.005%/°C

A-D Converter: 4000 times per second, resolution 24 bits

Analog Monitor: ±(5 V ± 200 mV) (load resistance 5 kΩ or more)

Display: 3.5-inch STN color LCD

Display area: 73.0 x 55.2 mm
320 x 240 dots, touch panel

Indication: ±99999

Calibration:

Manual calibration: No-load zero calibration, sensitivity-registering calibration, actual load calibration, units

TEDS-based automatic calibration

Partial calibration based on TEDS calibration data

TEDS operation setting

Smoothing Function:

Analog filter: 1, 30, 300 Hz and Nothing (1 kHz or more)

Attenuation -12 dB/oct.

Minimum scale, Moving average

Zero Compensation:

Zero at every preset compensation time

Least significant digit fixed at zero

Additional Value: ±99999

Sensor Output Value: Transducer output (±3.2 mV/V) is measured at 0.5-second intervals.

Measurement Condition Files: 32 files (16 for control input) can be saved.

Comparator Setting: 5; extra high (HH), high (HI), OK, low (LO), extra low (LL); Comparison value, hysteresis band, comparator output logic and using comparator can be set.

Measurement Modes: Normal, peak hold, block-specified peak hold, time-specified peak hold, bottom hold, block-specified bottom hold, time-specified bottom hold, arbitrary point hold
Detection times, delay time, comparison mode and display mode can be set.

Waveform Display:

X axis setting

Y axis setting

Waveform start mode, transit level, level transit direction, waveform hold time

System Setting: Key lock, setting value initialize, backlight illumination time, contrast, clock

Self-check: Memory, channel

Operation Check: Display, touch panel, control input/output, communication, BCD output, D/A output, SD card

Control Input: Zero command, hold command, reset command, waveform command, TEDS command and measurement condition select 0 to 3

Contact or open collector

Control Output: HH, HI, OK, LO, LL, healthy, abnormal channel, abnormal memory, communication error, SD

Open collector

Communication: RS-232C full duplex system

SD Card: Saves and loads setting values, saves and edits the waveform data.

Power Supply: 85 to 264 VAC, 50/60 Hz; 20 VA or less

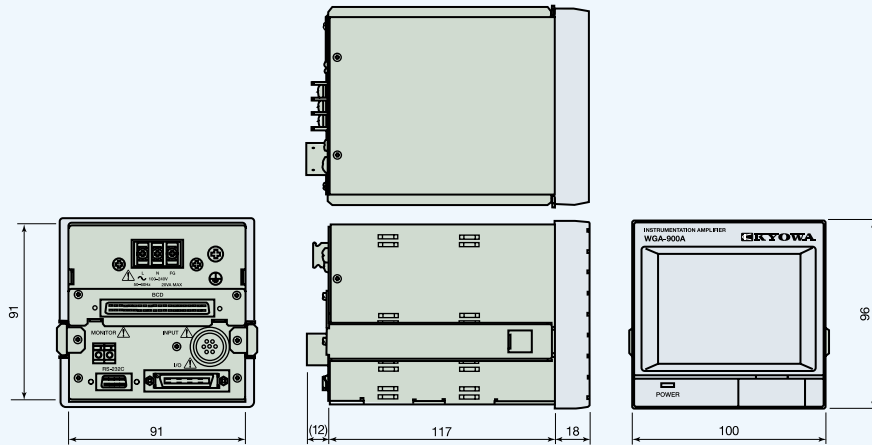
Dimensions: 100(W) x 96(H) x 135(D) mm

Weight: Approx. 1.0 kg (excluding options)

Operating Temperature/Humidity Range:
0 to 40°C, 20 to 85% RH (noncondensing)

Options: BCD output, D-A output, RS-485

Dimensions



JQA-0821
JQA-EM4824

Specifications are subject to change without notice for improvement.



Safety precautions

Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

Reliability through integration

KYOWA

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