

DC type dynamic strain amplifier DAS-406C

2023/10/05

Features



- DC ~ 200 kHz Characteristics in the frequency
- The standard equivalent strain is set with the 4-digits digital switch
- 3 1/2 digit digital monitor

Specification

Specification name	Specification contents
Measuring point	1 point/1unit
Applicable gage resistance	60 Ω ~ 1kΩ
Gage factor	2
Bridge power supply	2 VDC (Changeable to 1 VDC, 4 VDC and 10 VDC) with remote sensing function (50 mA or less)
Balancing adjustable range	Resistance section Approx. ±1 % (Gage resistance 120 Ω Approx. ±5 000 μst)
Balancing adjustable method	Auto balance, Auto balance time Approx.1 s, Accuracy ±0.1 %F.S.
Sensitivity	0.5 VDC output at theinput of 100 μst (When bridge power supply is 2 VDC)
Output	MONITOR ±10 V, ±5 mA (Load resistance2 kΩ or more) OUTPUT ±10 V, ±30 mA (Load resistance 330 Ω or more) Output resistance 10 Ω or less Output capacitive load 0.1 μF or less
Non-linearity	±0.01 % F.S.
Standard equivalent strain(CAL)	Set with digital switch, ±1 ~ ±9 999 μst, Accuracy ±0.2 %F.S. or less at each point
Sensitivity adjustable range(ATT)	1, 1/2, 1/5, 1/10, 1/20, 1/50, 1/100, 0 Accuracy ±0.2 %F.S. at each point GAIN volumu variable range 1 to 1/2.5 times continuous vary(VAR)

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Frequency response range	DC to 200 kHz +1 dB, -3 dB (Filter at W/B)
Low-pass filter	10 Hz, 100 Hz, 1 kHz, 10 kHz, W/B Third Bessel type
S/N ratio	46 dBp-p(ATT = 1) with W/B condition 55 dBp-p with 10 Hz to 10 kHz
Display	Output voltage display 0.00 to ±10.00 Digital display (Green LED) Sampling Approx. 4 times/s 0.00 or -0.00 flashes when output voltage is in non-linearity zone
Temperature efficient	Zero shift ±1 μst/ °C, Sensitivity variation ±0.01 %F.S./°C
Efficient due to time	Zero shift ±5 μst/ 8h, Sensitivity variation ±0.05 %F.S./8 h
Efficient due to power supply	Zero shift ±1 μst/ variation of power supply voltage within ±10 % Sensitivity variation ±0.01 %F.S. /variation of power supply voltage within ±10 %
Operating temp./humidity range	Temperature :-10 °C to 50 °C, Humidity 85 %RH or less (Non condensing)
Power supply voltage	100 VAC ±10 VAC, 50/60 Hz
Power consumption	Approx. 10 VA (at AC100 V)
Outline dimensions(WxHxD)	42 mm x 176 mm x 284.4 mm (excludes protruding parts)
Weight	Approx. 1.5 kg