2023/03/22 Discontinued Products

Alternative

A&D Company

Limited Industrial Measuring Instruments/Signal Conditioners/AC Strain Amplifier AS3000 Series/Strain amplifier AC bridge method general-purpose low bandwidth type AS3603

Features



- Eqquipped the wire length correcting function and open circuit check function.
- · High sensitivity and high gain
- · Excellent visibility and operativeness
- Two power supply types

Specification

Specification name	Specification contents
Measuring point	1 point/1unit
Applicable gage resistance	$60~\Omega\sim~1 k\Omega$
Gage factor	2
Bridge power supply	0.5 VACrms, 2 VACrms, 5 kHz sine wave, Sync input/output signal 2.5 VACrms

Dynamic strain amplifier DSA - 631

Discontinued Products 2023/03/22

Balancing adjustable range	Deviation of resistive value :Approx. ± 2 % (± 10 000 μ st) Capacitive imbalance : Approx. 2 000 pF Balancing adjusting Accuracy ± 0.4 μ st (RANGE=200, without FINE, BV=2 V)
Maximum input range	±200 000 μst (RANGE=20k, FINE=x2.5, BV=0.5 V)
Sensitivity	±10 V within ±200 μst
Shift of measuring range	200, 500, 1k, 2k, 5k, 10k, 20k(μ st, x2/BV in value), OFF Fine adjustment Continuously changeable in FINE \sim RANGE 2 steps changing amount can be selected.
Non-linearity	±0.01 % F.S.
Standard equivalent strain(CAL)	Set by digi-switch : ± 1 to9 999 μ st Accuracy ± 0.5 %rdg ± 0.5 μ st
Frequency response range	DC to 2 kHz±10 %
Hi-pass filter	0.5 Hz : 2-pole butterworth type (Filter descent response : -12 dB/oct)
Low-pass filter	10 Hz, 30 Hz, 100 Hz, 300Hz, 500 Hz : 4-pole butterworth type (Filter descent response : -24 dB/oct)
Temperature efficient	Zero drift : Within $\pm 0.1~\mu st/^{\circ}$, Sensitivity : Within $\pm 0.05~\% F.S./^{\circ}$
Efficient due to time	Zero drift : Within $\pm 0.5~\mu st$ /24h, Sensitivity : Within $\pm 0.2~\% F.S./24~h$
Noise	2.0×10 -6 in strain p-p RTI (W/B, RANGE=200, Without FINE, BV=2 V, 120 Ω in bridge) 0.6×10 -6 in strain p-p RTI (DC ~ 100 Hz, RANGE=200, Without FINE, BV=2 V, 120 Ω in bridge)
Output	OUTPUT1 ± 10 V, ± 5 mA, Load resistance 2 k Ω OUTPUT2 ± 10 V, ± 10 mA, Load resistance 1 k Ω Output impedance 0.5 Ω or less, Capacitive load Operable up to 0.1 μ F
Output adjustment	OUTPUT2 ADJ (Can be independently varied continuously from 1 to $1/10$)
Operating temp./humidity range	Temp10 $^{\circ}$ to 50 $^{\circ}$ C, Humidity20 $^{\circ}$ to 85 $^{\circ}$ RH or less(Non condensing)
Power supply voltage, Power consumption	AC85 V to AC132 V/AC180V to AC264 V (Internal switch must be changed) 9 VA or less DC10 V to DC30 V, 6 VA or less
Outline dimensions(WxHxD)	49.5 mm x 143 mm x 253mm (excludes protruding parts)
Weight	Approx. 1.4 kg

Options

Current output DSA-631-07 Bridge Box Unit FA410-072