AM50D

DC AMPLIFIER



- 7-segment LED display with 8mm character height
- High-accuracy DC amplifier with high-pass and low-pass filter
- High gain (Max. gain: 10000 times) at DC to 20kHz band
- Equipped with easy-to-use strain gage simulator function for calibration
- Zero drift : within ±0.3µV/°C
- Auto zero function

Specifications	
INPUT RESISTANCE 60 to 2k	
RANGE	
EXCITATION VOLTAGE DC2.5, 5, 10, 15V±0.3% Output current: with	in50m∆
ZERO ADJUSTMENT +1.5mV/V	IIIIJUIIIA
RANGE 10 turn potentiometer dial knob	
GAIN ADJUSTMENT Coarse adjustment: 0, 1/50, 1/20, 1/10, 1/5, 1/2	2 1/1 Frror+0 2%
RANGE Fine adjustment: 1 to 1/6 of each range variable	
INPUT VOLTAGE RANGE 0 to ±100mV	,ic
INPUT RESISTANCE 10M or more (balanced differential direct-co	nnect type)
VOLTAGE AMPLIFICATION Max. 10000 times	
NON-LINEARITY Within ±0.01%/FS	
ZERO DRIFT(at gain max.) Within ±0.3µV/°C RTI(after a lapse of 30 min. after p	oower ON)
GAIN DRIFT Within 0.01%/°C (after a lapse of 30 min. after	
NOISE(at gain max.) Within 20µVp-p RTI (full band)	
Within 6µVp-p RTI (1kHz band)	
Within 0.8µVp-p RTI(10Hz band)	
OUTPUT SIGNAL Voltage output:0 to ±10V ±5mA	
Output resistance: 0.2 (BNC connector output (To	wo lines))
Voltage output:0 to ±10V ±30mA	
Output resistance:300 (External I/O connect	tor)
RESPONSE CHARACTERISTIC DC to Approx. 20kHz/—3dB	·
HIGH-PASS FILTER 0.5Hz(-3dB)±15% -6dB/oct. (AC mode)	
LOW-PASS FILTER Bessel type (-12dB/oct.)	
1、10、30、100、300、1kHz(-3dB)±15% and	PASS
CALIBRATION VALUE Strain calibration:±1 to 9999×10 ⁻⁶ strain	
(superimposed on input signal)	
Setting method:4-digits digital switch	
Accuracy:±0.2%±0.5×10 ⁻⁶ strain	
EXTERNAL CONTROL Auto zero function	
Auto zero range:±1V	
Resolution: 12bit (±1/2000)	
Auto zero command	
ON and OFF, panel face switch and exter	rnal signal
(negative pulse with a pulse width of 100r	ms or more)
CAL command	
CAL+ and CAL-, panel face switch and e	
VOLTAGE MONITOR Display: Character height 8mm numerical display, 7	-
Dispaly value:-19999 to 19999 sign:minus sign on m	nost significant digit
Unit:V fixed	
Minimum scale value: 1, 2, 5, 10 (Rounding off	·)
POWER SUPPLY VOLTAGE AC100V±10% 50/60Hz	
POWER CONSUMPTION Approx. 10VA	
OPERATING CONDITIONS Temperature Operation temperature range:	
Storage temperature range: –3	
Humidity 85%RH or less (non-condensin	-
EXTERNAL DIMENSIONS 49.5(W)×138(H)×310(D)mm (not including p	orotrusions)
WEIGHT Approx. 1.6kg	
ATTACHMENTS AC input cord	
CA8(BNC-BNC-alligator clip cable 1.5m)	
Operation manual	
OPTIONAL CA3Y31: Cable with PRC connector at one of	
TURTIONAL LASYST, USDIE WITH PRU CONNECTOR STONE 6	
ACCESSORIES CA451: Cable with PRC connector at one of CA451: Cable with PRC connector at both	end (6 wire) 5m
	end (6 wire) 5m

External dimension

