DPM-951A/952A Strain Amplifier



Strong against Inverter Noise, Easy Operation

- Easy operation greatly reduce the working hours
 Digital switch makes setting easily and the setting
- value is easy to be seen even during power is off. ●High voltage output of ±10 V and high SN ratio are ensured
- •Vertical bar meter is easy to see
- •The HPF cancels the effect of slow changes, such as temperature drift of gages or sensors
- Sensitivity (Measuring range) is set in combination of strain level and output voltage settings.
- Sensitivity of TEDS compatible transducers is automatically registered
- Input and output is isolated
- Sensitivity is automatically set with the actual load calibration function.
- Built-in checking function on bridge circuit
- Broad frequency response DC to 10 k Hz

Models	Carrier Wave Frequencies	Frequency Response Range	SN Ratio
DPM-951A	5 kHz	DC to 2 kHz (Deviation ±10%)	58dBp-p or more
DPM-952A	12 kHz	DC to 5 kHz (Deviation ±10%)	53dBp-p or more

(At BV=2 Vrms, bridge resistance 120 $\Omega,$ LPF=FLAT, 1000 $\mu m/m$ input, 10.00V output set)

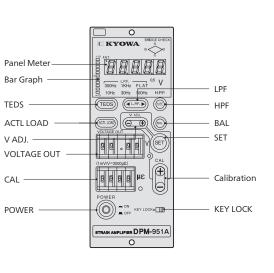
Specifications

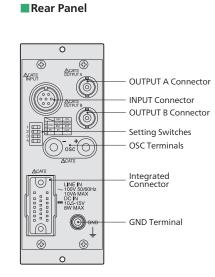
specifications	
	ain gages, strain gage transducers
Number of Input Chanr	
Applicable Bridge Resis	
5	0 fixed
	rms, 5 Vrms, switchable
Carrier Frequencies 5 k	Hz (DPM-951A) kHz (DPM-952A)
Balance Adjustment Ra	nge Resistance: Within ±2%(±10 k μm/m) Capacitance: Within 2000 pF
Palanco Adjustment Me	
Balance Adjustment Me	istance: True electron auto-balance method
	:uracy: Within $\pm 0.5 \ \mu\text{m/m}$
	rage: Written into nonvolatile memory
	pacitance: CST (Auto-tracking) method
	thin $\pm 0.1\%$ FS
Output Impedance Ap	
Calibration Strain (CAL)	
	Setting CAL switch (4-digital switch)
	Accuracy: Within $\pm (0.5\% + 0.5\mu m/m)$
Sensitivity Adjustment	-
	VOLTAGE OUT switches (4-digit digital switches)
	CAL switch range: 100 to 9999 µm/m by 1µm/m step
	VOLTAGE OUT switch range: 1.00 to 10.00 by 0.01V step
	Accuracy: Within ±0.5%
	Range: X200 to X20000
Fine Sensitivity Adjustm	nent Range: 1 to 1/2.5
LPF Transfer characteris	tic: 2nd order Butterworth
Cutoff frequencies: 6 st	eps of 10, 30, 100, 300, 1 k Hz and FLAT Cutoff
Amplitude ratio: -3±1c	IB
Attenuation: -12±1dB/	oct. (Except LPF of DPM-951A is set to 1 kHz)
HPF Cutoff frequencies:	2 steps of 0.2 Hz and off
Output OUTPUT A: ±10) V (Load resistance 5 kΩ or more)
OUTPUT B: ±10	V (Load resistance 5 kΩ or more)
Stability Temperature	Zero point: ±0.1 µm per °C
	Sensitivity: ±0.05%/°C
Time	Zero point: ±0.5µm/m/24h
	Sensitivity: ±0.3%/24h
Power supply	Zero point: ±0.05%FS/power fluctuation ±10%
	Sensitivity: ±0.05%/power fluctuation ±10%
5	VAC for 1 minute between measuring bridge and chassis
	VAC for 1 minute between AC power supply and chassis
Output Voltage Indicat	ion 4½-digit(7-segment LED) indicator
	11-segment LED bar meter
Over Input Indication Out	tput voltage indication flickers (4½-digit digital
	ication only)
	dge check
•	ks all keys other than POWER switch
	tting on digital CAL and VOLTAGE OUT
	tches can be changed)
	bles remote execution of balance adjustment (BAL)
	ibration output (CAL) and key lock
	ads TEDS information and sets VOLTAGE OUT
	rated output
	Sets VOLTAGE as actual load input
Operating Temperature R	
	ge 20 to 85%RH (Non-condensing)
11.2	5 VAC (108 to 132 V)
) VAC (180 to 220 V)
) VAC (207 to 253 V)
	5 to 15 VDC (Approx. 0.6A, at 12 VDC)
	prox.1.2 kg
	ble U-08 (1.5 m), U-59 (1.5 m), 1 each
	cable P-25 (With 2-pin conversion plug CM-39), get type 0.5A, 1A)
	n manual, simple manual sticker
Evtonsion	cables N-81 (5 m) to N-85 (50 m)
Accessories Bridge box	kes DB, DBB, and DBS
Housing ca	ase YC-A
Noise filter	r F, and amplifier stand FA

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Dynamic Strain Measuring Instruments







Dimensions

