



Dynamic Strain Pre-amplifier (Plug-In)

Model: YE3830B/C

FEATURES

- Double 16 bits D/A Auto-balance;
- Long cable compensation automatically;
- Selectable gain, bridge voltage, low-pass filters;
- Overload indication;
- Each channel matches with YE29003A bridge box.;
- Suitable for testing high frequency response strain;
- Standard plug-card, supporting YE6267 / YE6268 dynamic data acquisition system.



Numbers of Channel	YE3830B : 2CH ; YE3830C : 4CH	
Input Range	0 to $\pm 5000\mu\epsilon$ (2VDC Bridge Voltage)	
Input Impedance	$>100M\Omega$	
Bridge Resistance	120 to 2000Ω with $K=2.00$	
Output Range	$\pm 5VP/5mA$	
Noise	$\leq 3\mu V$ (Referred to input at maximum sensitivity)	
Stability	Zero	$\pm 1\mu V/^{\circ}C$; $\pm 0.1\%/F.S/2h$ (input to ground)
	Sensitivity	$\pm 0.01\%F.S/^{\circ}C$; $\pm 0.1\%/F.S/2h$
Bridge Voltage	1,2,3, 10VDC/30mA(MAX) balance to ground	
Gain	Steps	100 to 4000(adjustable)
	Accuracy	$\leq \pm 0.5\%$
	Nonlinearity	$\leq \pm 0.1\%$ of full scale
Balance	Auto Balance: $\pm 5000\mu\epsilon$	
Frequency Range	DC to 100kHz(-3dB)	
Low-pass Filter	2.5 to 30kHz preset or automatic set according to sampling rate (corner:- 3dB \pm 1dB,-12dB/OCT)	
Temperature	Operating : $-10^{\circ}C$ to $50^{\circ}C$; Storage : $-55^{\circ}C$ to $85^{\circ}C$	
Humidity	85%R.H. Max.	
Supply Power	YE6277/YE6278 Host Case	
Input Type	Input: 7-Pin Socket : PIN1 : P+ ; PIN2 : P- ; PIN3 : S+ ; PIN4 : SB ; PIN5 : S- ; PIN6 : IN+ ; PIN7 : IN- Output to YE6267/YE6268 Host Case	
Accessories	Input Cable	
	YE29003A Bridge Box	