






6.5 Dynamometer (Weighting Indicator)

	<p>YE4871 Dynamometer Equipped with strain force transducer(weighting transducer), Force value display via four LED ;used as the dynamometer of teaching experiments / engineering weighting. Bridge voltage: DC5V ± 0.1%;Transducer input signal range:0-1.5mV / V; Display Range: -100.00 to +100.00KN</p>
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6.6: Filters

			
<p>YE3760A 2-channels ,Low Pass</p>	<p>YE3770A 2-channels, High Pass</p>	<p>YE3790A 2-channels ,Band Pass</p>	<p>YE3762A 6-channels, low pass, anti-aliasing</p>

Model	YE3760A	YE3770A	YE3790A	YE3762A
Input Range	±10VP	±10VP	±10VP	±10VP
Input Impedance	≥100kΩ	≥100kΩ	≥100kΩ	≥1MΩ
Hz(-3dB) Upper Limit Frequency	10,20,50,100,200,500,1k,2k,5k,10k,20k (-36dB/OCT)	100k	10,20,50,100,200,500,1k,2k,5k,10k,20k (-36dB/OCT)	20,50,100,200,500,1k,2k,5k,10k,20k (-120dB/OCT)
Hz(-3dB) Low Limit Frequency	DC	1,2,5,10,20,50,100,100,500,1k, 2kHz (-36dB/OCT)	1,2,5,10,20,50,100,200,500,1k,2kHz (-36dB/OCT)	0.03H z
Output Range	±10VP/5mA	±10VP/5mA	±10VP/5mA	±10VP/5mA
Noise	≤1mV	≤1mV	≤1mV	≤1mV
Gain	1 to 10 Adjustable (Preset 1)			1
Accuracy	≤±1%	≤±1%	≤±1%	≤±1%
Distortion	≤±1%	≤±1%	≤±1%	≤±1%
Operating Environment	Operating Temperature:0℃ to +40℃; Humidity:85%R.H.			
Weight	1.5Kg			5Kg
Dimensions(mm)	70W×132.5H ×200 D			W305 ×144H×300D
Input/Output	BNC			
Power Supply	AC:220V50Hz ; DC:±18V - ±27V			AC:220V50Hz



7. Vibration Excitation and Calibration Series

7.1: Sweeping Frequency Signal Generators

		<p>Power/Signal Output; Frequency and Power value indication; Manual/Auto sweeping frequency; Upper/Low Limit Frequency and sweeping speed can be preset(the ratio of sweeping frequency is 1000:1); Log/Linear Mode;Apply for acoustics, vibration testing and driving JZK-5 and more small modal shakers.</p>
<p>YE1311</p>	<p>YE1311E</p>	



Model	Output Waveform	Frequency Range	Power Output	Signal Output
YE1311	Sine,Square,Triangle,white noise	2-2kHz ; 20-20kHz	30W(4Ω)	1Vrms
YE1311E	Sine	20- 20kHz	100W(4Ω)	1Vrms

7.2: Power Amplifiers

 YE5871A - YE5874A	<p>YE587 Series Power Amplifier</p> <p>Output voltage/current indication and monitoring end hole; Output signal clipping indication; the restriction function of adjustable output current; output transistor overheating protection; output transistors invalidation indication; low/high impedance output; Constant current or constant voltage output; Used as the high-power excitation source for vibration test and measurement, and driving the JZK series shakers and small vibrators directly; wide frequency response range, good linearity and small waveform distortion.</p>
 YE5876	

Model		YE5871A	YE5872A	YE5873A	YE5874A	YE5878
Rated output power		96 VA	192 VA	500 VA	810 VA	1500 VA
Input impedance		>10 kΩ	>10 kΩ	>10 kΩ	>10 kΩ	>10 kΩ
Rated output voltage		16 Vrms	16 Vrms	25 Vrms	32 Vrms	40 Vrms
Rated output current		6 Arms	12 Arms	20 Arms	25 Arms	37.5 Arms
Non-linearity distortion		<0.5%	<1%	<1%	<1%	<0.5%
S/N rate	Low Impedance	≥90dB	≥80dB	≥80dB	≥80dB	≥90dB
	High Impedance	—	≥60dB	≥60dB	≥60dB	—
Gain	Low Impedance	10V/V±2dB	7V/V±2dB	10V/V±2dB	10V/V±2dB	10V/V±2dB
	High Impedance	—	8A/V±2dB	16A/V±2dB	16A/V±2dB	—
Frequency Response(Hz)	DC	0 – 50k±1dB	0 – 50k±1dB	0 – 50k±1dB	0 - 10k±1dB	0 - 10k±1dB
	AC	20– 50k±1dB	20–50k±1dB	20–50k±1dB	—	—
(Hz) Frequency Range	Full Power	20 – 5k	20 – 5k	20 – 5k	20 – 5k	10 – 5k
	Half Power	0 – 50k	0 – 50k	0 – 50k	0 – 50k	0 – 10k
limited output Current		—	3 - 12 Arms	5 - 20 Arms	5 - 25 Arms	5 - 38 Arms
overheating protection		≤85℃±5℃	≤85℃±5℃	≤85℃±5℃	≤85℃±5℃	≤85℃±5℃
Clipping indication		—	yes	yes	yes	yes
output Meter Tolerance		<±5%	<±5%	<±5%	<±5%	<±5%
Dimensions W x H x D (mm)		320×89×260	440×132.5×320	440×132.5×480	440×132.5×540	485×500×500
Weight(Kg)		7	13	25	31	68
Power Supply		AC:220V50Hz 1A	AC:220V50Hz 2A	AC:220V50Hz 5A	AC:220V50Hz 8A	AC:220V50Hz 15A

7.3: Modal Shakers/Small Vibrators

JZK- Series Modal Shakers	JZK- Series Small Vibrators
	
<p>JZK- series modal shakers and vibrators are made of Permanent magnetism rare-earth material; Wide frequency response, high efficiency, reasonable structure, high reliability. Suitable for structural vibration experiments, dynamic structural simulations, fatigue testing of parts, modal test/finite element model analysis..Also used as small vibrators. Cooling by natural/forced convection.</p>	

Model	JZK-2	JZK-5	JZK-10	JZK-20	JZK-40	JZK-50	JZK-70	JZK-100	JZK-5T	JZK-30T
Rated peak force (N)	≥20	≥50	≥100	≥200	≥400	≥500	≥700	≥1000	≥50	≥300
Max. Rated Travel (mm)	± 3	± 7.5	± 10	± 10	± 12.5	± 12.5	± 12.5	± 15	± 5	±7.5
Max. Acceleration g	20	20	28	30	48.5	550	455	65	20	50
Maximum Input Current (Arms)	≤2	≤7	≤10	≤14	≤28	≤30	≤25	≤30	≤7	≤25
Frequency Range (Hz)	DC-15k	DC-5k	DC-2k	DC-2k	DC-2k	DC-2k	DC-1.5k	DC-1.5k	5-10k	5-5k
First Order Resonance Frequency (Hz)	70Hz	50Hz	50Hz	50Hz	40Hz	40Hz	30Hz	30Hz	60Hz	40 Hz
DC Coil Resistance	1.7Ω	0.7Ω	0.7Ω	0.7Ω	0.6Ω	0.6Ω	0.9Ω	0.6Ω	0.6Ω	0.6Ω
Force Constant (N/A)	10	7.2	10	14.3	11.3	16.7	28	33.4	7.2	12
Effective Moving Mass(Kg)	0.1	0.25	0.36	0.67	0.85	0.85	1.54	1.54	0.25	0.62
Dimensions (mm)	Φ78 × 112	Φ138 × 160	Φ158 × 190	Φ180 × 244	Φ190 × 345	Φ240 × 345	Φ280 × 385	Φ280 × 385	Φ138 × 165	Φ180 × 224
Mounting Hole (mm)	80×80 /4-Φ7	150×128 /4-Φ8	172×148 /4-Φ8	200×160 /4-Φ10	180×150 /4-Φ10	180×150 /4-Φ10	250×210/ 4-Φ13	250×210 /4-Φ13	150×128 /4-Φ8	200×160 /4-Φ10
Wight (Kg)	2.9	8.1	15	17.5	38.5	38.5	68	68	8.5	25
Output Type	Mandril	Mandril	Mandril	Mandril	Mandril	Mandril	Φ80 Table	Φ80 Table	Φ60 Table	Φ80 Table
Connection Type	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5
Recommended Amplifier	YE5871A	YE5871A	YE5872A	YE5873A	YE5874A	YE5874A	YE5874A	YE5878	YE5871A	YE5873A

Note: Table , Mounting type, small vibrators (JZK-100T, JZK-200T) can be customized.