Electromagnetic shaker system



F3/Z602WA

SPECIFICATIONS

J. 25 137 (110110		
Usable frequency range		25 - 10,000 Hz
Blocked force output ¹		see graph on page 2
Maximum continuous current		0.75 amp rms
Nominal electrical impedance		16 Ω
DC electrical resistance		6 Ω
Resonant frequency, blocked		<50 Hz
Connector ²		BNC
Cable for use with WST7B3 amplifier		R1-8B-8B-J93-10-P1
Accelerometer nominal v	alues	
Voltage sensitivity		100 mV/g
Frequency response:	±0.5 dB	20 - 6,000 Hz
	±1.0 dB	15 - 10,000 Hz
	±3.0 dB	10 - 20,000 Hz
Power requirements: voltage source current regulating diode		18 - 30 VDC
		2 - 10 mA
Bias output voltage, nominal		8 VDC
Output impedance		<100 Ω
Electrical noise, equiv	. g: 10 Hz	15 μg/√Hz
Spectral	10 Hz	5 μg/√Hz
	1,000 Hz	1 μg/√Hz
Connector ²		BNC
Output cable		R1-2-J93-10-L1
Force gage nominal value	es	-
Voltage sensitivity		100 mV/lb (22.5 mV/N)
Power requirements: voltage source		18 - 30 VDC
	gulating diode	2 - 10 mA
Bias output voltage, n	ominal	12 VDC
Output impedance		<100 Ω
Electrical noise, equiv	. lb:	
Spectral	10 Hz	5 μlb/√Hz (22 μN/√Hz)
	100 Hz	2 μlb/√Hz (9 μN/√Hz)
Connector ²	1,000 Hz	1 μlb/√Hz (4 μN/√Hz)
		BNC
Output cable		R1-2-J93-10-L2
Mass below force gage (including stud)		20 grams (0.044 lb)
Effective stiffness Diameter of mounting surface		6 x 10 ⁶ lb/in (1 x 10 ⁹ N/m)
Mounting stud, stainless steel		0.55 in. (1.4 cm) 10-32
Recommended screw down torque		
		20 in-lb (2 Nm)
Temperature range		0° to +80°C
Base material		anodized aluminum
Weight:	to etructuro	0.30 lb (0.14 kg)
	to structure	0.30 lb (0.14 kg) 0.53 lb (0.24 kg)





Key features

- Permanent magnet shaker
- Reaction-type shaker generates very large dynamic forces for research and testing
- · Impedance head design allows measurements to be taken on lightweight structures
- Designed for operation over a wide range of audio frequencies
- · Manufactured in ISO 9001 facility

See reverse for dimensions, graphs and system diagram.

Notes: 1 Blocked force output refers to the force output against a mass of infinite mechanical impedance.

Accessories supplied: All input and output cables; mounting stud; spanner wrench; calibration data

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

Tel: +1 (301) 330-8811 Fax: +1 (301) 330-8873 info@wilcoxon.com

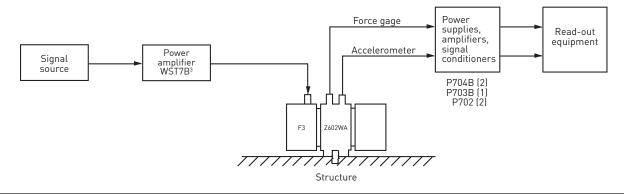
² Refers to connector at shaker end of cable.

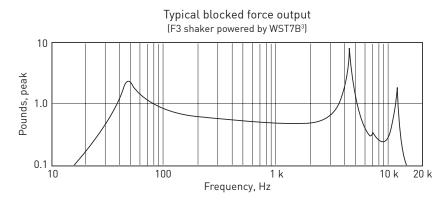
Electromagnetic shaker system



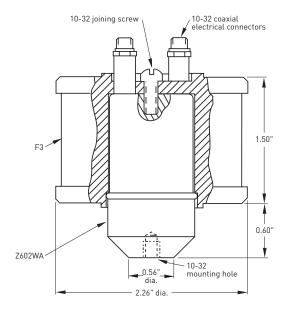
F3/Z602WA

Recommended system diagram





Dimensions



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

Tel: +1 (301) 330-8811 Fax: +1 (301) 330-8873 info@wilcoxon.com