

Piezoelectric vibration generator

F7

SPECIFICATIONS

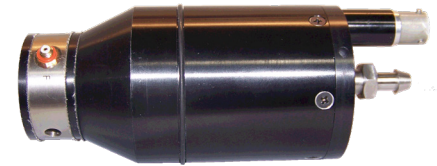
Usable frequency range	500 to >20,000 Hz
Blocked force output¹	see graph on page 2
Maximum input	800 V rms
Maximum acceleration	1,000 g
Capacitance	8.0 nF
Connector²	Bendix PT06A-8-3P
Cable (shaker drive cable)	R4-4M-J9-10
Accelerometer nominal values:	
Charge sensitivity	9 pC/g (0.92 pC/m/s ²)
Voltage sensitivity³	13 mV/g (1.33 pC/m/s ²)
Capacitance³	700 pF
Frequency range, ±3 dB	10 - 20,000 Hz
Connector²	Microdot 10-32
Cable (low noise, coaxial)	R1-1-J1-6
Force gage nominal values:	
Charge sensitivity	175 pC/lb (40 pC/N)
Capacitance³	2 µF
Connector²	Microdot 10-32
Cable (low noise, coaxial)	R1-1-J1-6
Mass below force gage (including stud)	20 grams
Effective stiffness	3 x 10 ⁸ lb/in (5.2 x 10 ⁹ N/m)
Diameter of mounting surface	0.63 in. (16.2 mm)
Mounting stud, stainless steel	3/8-16 UNC
Recommended screw down torque	100 lb/in (11 N/m)
Temperature range	-50° to +80°C
Base material	titanium
Weight	2.5 lb (1.1 kg)

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

² Refers to connector at the end of cable.

³ Measured at the end of the supplied cable, 30 pF/ft.

Accessories supplied: All input and output cables; mounting stud; spanner wrench; adaptor cable



Key features

- Reaction-type shaker generates very large dynamic forces to very high frequencies
- Can be stud-mounted in any position without external support
- Designed to mate with the F4 shaker to extend low-frequency range down to 10 Hz
- Manufactured in ISO 9001 facility

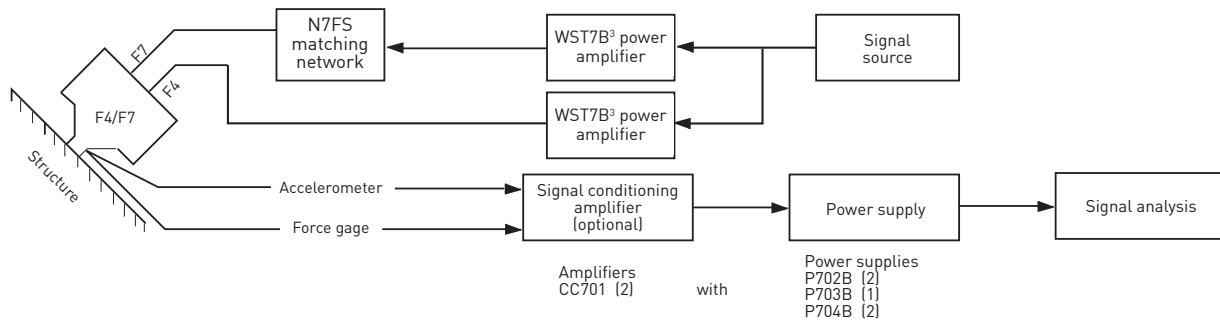
See reverse for dimensions, graphs and system diagram.

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

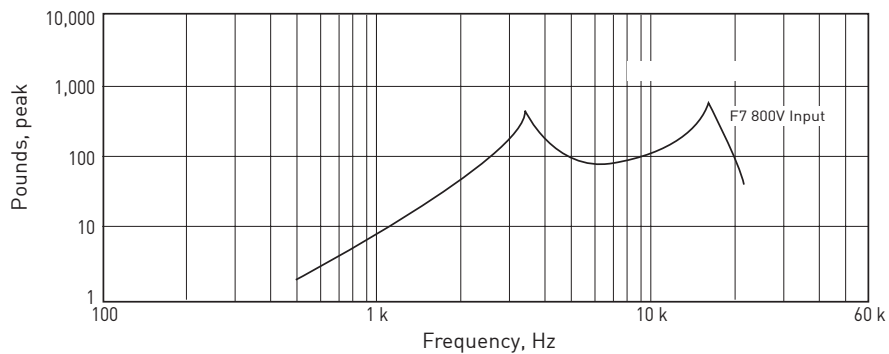
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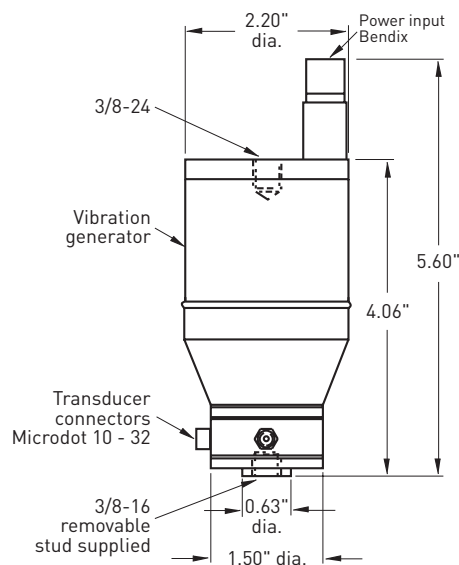
Recommended system diagram



Typical blocked force output



Dimensions



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