

8921 REFERENCE SHAKER

The Type 8921 provides an accurate controlled vibration level to verify the sensitivity of vibration sensors or the complete measuring system. The internal control and excitation system provides a constant, exact frequency while a closed loop control maintains a constant amplitude independent of the mass of the test article. Should the test article exceed the capacity of the shaker, the unit provides an audible and visual warning to the operator. A self contained, rechargeable battery can power the shaker up to approximately

three hours between recharging. Operator convenience and measurement confidence are of primary importance. The unit is portable, weighing 4.5 pounds. Front panel indicators provide information as to the condition of the internal battery. An automatic shut-off circuit switches off the power automatically after 10 minutes of continuous operation. The 8921 has sufficient force to test every sensor from the smallest laboratory accelerometer to large industrial sensors.

- Test measurement system integrity
- Convenient, self-contained and portable
- rechargeable battery
- Tests sensors up to 300 grams of weight
- Conforming to CE



Technical Data	Units	8921
Reference Frequency ±0.05%	Hz	159.2
	rad/s	1000
Amplitude		
Acceleration rms, ±3%	g (m/s ²)	1 (10)
Velocity rms, ±3%	in/sec (m/s)	0.39 (10)
Displacement	mils (µm)	0.039 (10)
Maximum Load	oz (g)	10.6 (300)
Temperature Range Operating	°F	50 ... 104
	°C	10 ... 40
Operating Time with 100g load ⁽¹⁾	hours	3
Switches off Automatically After	min	10
Power	battery	built in rechargeable
Weight	lb (kg)	4.5 (2)
Battery Charger		
Dimensions (H x W x D)	in	3 x 4.2 x 7
Input	VAC	115/230
	Hz	48 ... 62
Output Voltage	VDC	12
Output Current	mA	300

(1) The 8921 will operate at AC power with the battery fully charged

1 g = 9.80665 m/s², 1 inch = 25.4 mm, 1 gram = 0.03527 oz

Applications

The Type 8921 Reference Shaker can be used to confirm the sensitivity of acceleration, velocity and displacement sensors. It further provides convenient and accurate means of testing the integrity of the vibration measurement system from end to end. The unit is rugged to withstand factory environments and provide years of reliable operation in the laboratory.

Supplied Accessories

8451 mounting stud, 10-32 to M5
8453 mounting stud, 1/4-28 to M5

Ordering Information

Specify:

8921Y26 shaker with battery charger for 115 VAC operation
8921 shaker with battery charger for 230 VAC operation