Environmental Test Solutions

Portable Shaker Kit for Vibration Education

Features

- **Quick Demonstration for Vibration Related Theories and Properties**
- **Real Vibration Testing Tools for Small Objects**
- **Understanding of：Modal Testing, Structure Modification, Structure Optimization, Material Properties, Fatigue Properties, FEM Tuning, Vibration Reduction Theories, Vibration Testing, Vibration Control, Signal Processing, and ESS (Used with Various Analyzers.)**

Vibration Sources

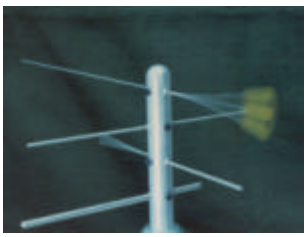
1. Built-in Function Generators × 5
   - Frequency Range: 3 ~ 4000 Hz
   - Max. Displacement: 2 mm $_{p\text{-}p}$
   - Max. Payload: 1 kg
   - Sine Wave：4 sets
     - Fixed or Sweep
     - 4 LED Display (Frequency Value Only)
   - Random：1 set
     - White or Pink Noise
     - Band/Low/High Pass（Band Selectable）
2. External BNC Input x 1
3. Memory Card Input × 1 (Optional)

Monitoring Output of Shaker Signal

- BNC output × 1

DIY Operations

1. **Observation of Structure Resonance, Mode Shapes and Node Points (with Optional Stroboscope)**
2. **Sorting of Structure Resonance**
3. **Band Property of Structure Resonance**
4. **Effects of Structure Modifications (Shape, Thickness, Length, Mass, Damping)**
5. **Shifting of Structure Resonance**
6. **Effects of Vibration Reduction or Absorption**
7. **Phenomenal of Fixed Sine, Sweep Sine, Random, and Band Selectable Vibrations**
8. **Phenomenal of different Sweep Rate**
9. **Combinations of Multiple Fixed Sine, Sweep Sine, and Random Vibration**



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