

# APS 300 ELECTRO-SEIS®

## Portable Shaker-Amplifier



The **APS 300** Portable Shaker-Amplifier is a self-contained, permanent magnet, electrodynamic shaker and a linear power amplifier in an aluminum carrying case. For operation, the unit separates into two sections - the Amplifier section and the Shaker section. Options for the Shaker include a very soft armature suspension for modal test application (Model APS 300-M) and a very stiff suspension for sensor calibration and component test (Model APS 300-C).

### Applications

- Modal test excitation of structures
- Field calibration of accelerometer and velocity pick-up systems
- Component testing

### Features

- Portability - 8 inch cube for Shaker and Amplifier
- Capable of carrying relatively heavy loads - Vertical and Horizontal
- Rugged, self-cooled design

# APS 300 ELECTRO-SEIS®

## Portable Shaker-Amplifier

### Description

Shaker is a self-contained shaker and amplifier in an aluminum carrying case. For operation, the unit separates into two sections - the Amplifier Section and the Shaker Section.

The shaker section consists of a permanent magnet electrodynamic shaker designed to operate at rated output for extended periods.

Applications for the Model APS 300 include Modal Test and Calibration. The Shaker includes provision for mounting an internal reference accelerometer.

Options for the Shaker include a very soft armature suspension for Modal applications (Model APS 300-M) and a very stiff suspension for carrying heavy transducers for calibration (Model APS 300-C).

### Performance

Acceleration performance charts of the **APS 300 ELECTRO-SEIS®** shaker will be provided on request.

### Specifications

|   |   |
|---|---|
| <b>Model</b>  | <b>APS 300</b>  |
| <b>Shaker</b>   |   |
| Frequency Range   | 0 Hz ... 10 kHz   |
| Force (Sine Peak)   | 22 N (5 lbf)  |
| Stroke (Peak – Peak)  | soft suspension: 0.2 in, 5 mm, p-p<br>stiff suspension: 0.1 in, 2.5 mm, p-p |
| Armature Weight   | 240 gram (0.52 lb)  |
| Load Weight Rating with Stiff Flexures<br>Horizontal and Vertical | 900 gram (4 lb)   |
| Test Load Attachment  | 10-32 or 1/4-28 threaded insert<br>optional metric thread sizes available   |
| <b>Amplifier</b>  |   |
| Max. Current Output   | 1.75 A RMS  |
| Max. Input Signal   | 2 V peak  |
| Frequency Range   | 0 Hz ... 10 KHz   |
| AC Power  | 50 VA   |
| Line Voltage  | 120 V or 240 V<br>100 V Optional  |
| <b>Total Unit</b>   |   |
| Weight  | 14.5 kg (32 lb)   |
| Operating Temperature   | 5 ... 40 degrees C  |
| Storage Temperature   | -25 ... 55 degrees C  |

### Accessories (optional)

|   |          |
|---|----------|
| Installed sine-wave generator with selectable                           | APS 3001 |
| Suspension/Tie-down Kit (APS 300-C, APS 300-M)                          | APS 3002 |
| Installed Accelerometer (Internal) with cable<br>(APS 300-C, APS 300-M) | APS 3003 |
| Reaction Mass Kit including Tie-down (APS 300-C)                        | APS 3005 |
| Re-usable Shipping Container (APS 300-C, APS 300-M)                     | APS 3006 |

Additional accessories available

All data are subject to change without notice