

Revere Aircraft Weighing System

SYSTEM FEATURES

- Capacity range— 15,000 to 600,000 pounds
- Accuracy of $\pm 0.1\%$ of applied load, or $\pm 0.02\%$ of channel capacity, whichever is greater
- G-factor compensation between calibration and operation locations enables accurate and simple operation
- Hermetically sealed, compact stainless steel load cells
- User-friendly, color graphic display with touch screen
- Robust and reliable operation

SOFTWARE FEATURES

- Synchronized sampling of all weight channels minimizes the effect of vibration, oscillations and wind
- On-board automatic center of gravity calculation
- Re-configurable load cell arrangement
- 3 weight modes meet different environmental conditions
- Automatic latitude and altitude adjustment of weight value
- Automatic zero tracking
- On-board library of up to 200 aircraft types and characteristics
- Diagnostic algorithms check for system errors
- Aircraft weights stored in history file for future comparison and data validation

APPLICATIONS

- Routine weight and center-of-gravity monitoring
- Weight checks after airframe repairs and modifications
- Design proving weight and center-of-gravity determinations

DESCRIPTION

The JetWeigh-5™ Aircraft Weighing System integrates state-of-the-art technology in digital weighing processing and high-accuracy hermetically sealed load cells. The integration of high performance load cells with modern,



advanced weighing processor (G4) results in an accurate, highly reliable, robust, and easy-to-use system for weighing aircraft.

Synchronized sampling of all load cells ensures correct weighing even under severe vibration and oscillation conditions.

The user terminal, a PC-based multi-channel indicator, handles up to 5 load cells. Its color graphic display with touch screen provides intuitive step-by-step operation, including advanced functions such as CG calculation, aircraft type library, weighing history, latitude and altitude adjustment, and printouts of weight results.

| SYSTEM COMPONENTS | CENTER-OF-GRAVITY ACCESSORY KIT |
|--|---|
| <ul style="list-style-type: none"> • 3 to 5 load cells • Rugged weighing user terminal • On-board thermal printer • Power supply and power cord • Center-of-gravity accessory kit • Jack adapters, cables • Rugged fiberglass carrying case | <ul style="list-style-type: none"> • Level and level bar • Plumb bob assembly (2) • Chalk and line • Hydrometers (2) • Fuel dipper • Hydrometer jar and stand • Leveling bar • 50-ft Steel tape • Screwdriver • 12-in Steel ruler |

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| SPECIFICATIONS | | | | | |
|------------------------------|--|----------------------------------|------------|------------|------------|
| PARAMETER | DESCRIPTION | | | | |
| SYSTEM | | | | | |
| Accuracy | 0.1% of applied load or 0.02% of channel capacity, whichever is greater | | | | |
| Calibration method | Dead weight calibration of load cells in factory | | | | |
| Power | 110–240 VAC with 1,2 A | | | | |
| Environmental protection | Load cells—IP65; kit case—high-impact fiberglass carrying case | | | | |
| Environmental conditions | Operating temperature | +14°F to +120°F (–10°C to +50°C) | | | |
| | Storage temperature | –4°F to +140°F (–20°C to +60°C) | | | |
| | Humidity | 95% RH, non-condensing | | | |
| KIT CONFIGURATON | | | | | |
| PARAMETER | MODEL | | | | |
| | JW-15J5 | JW-20J5 | JW-30J5 | JW-40J5 | JW-75J5 |
| No. of load cells | 3 | 4 | 3 | 4 | 3 |
| Cell capacity (lb) | 5,000 | | 10,000 | | 25,000 |
| Kit capacity (lb) | 15,000 | 20,000 | 30,000 | 40,000 | 75,000 |
| Part number | 64001-00J5 | 64001-01J5 | 64001-02J5 | 64001-03J5 | 64001-04J5 |
| Resolution (lb) | 0.5 | 0.5 | 1 | 1 | 2 |
| Kit weight (lb) | 72 | 78 | 72 | 78 | 72 |
| Kit dimensions (in) | 32.88" L X 17.5" W X 8.75" H | | | | |
| PARAMETER | JW-100J5 | JW-150J5 | JW-200J5 | JW-300J5 | JW-400J5 |
| | No. of load cells | 4 | 3 | 4 | 3 |
| Cell capacity (lb) | 25,000 | 50,000 | | 100,000 | |
| Kit capacity (lb) | 100,000 | 150,000 | 200,000 | 300,000 | 400,000 |
| Part number | 64001-05J5 | 64001-06J5 | 64001-07J5 | 64001-08J5 | 64001-09J5 |
| Resolution (lb) | 2 | 5 | 5 | 10 | 10 |
| Kit weight (lb) | 78 | 72 | 78 | 96 | 110 |
| Kit dimensions (in) | 32.88" L X 17.5" W X 8.75" H | | | | |
| PARAMETER | JW-250J5 | JW-425J5 | JW-450J5 | JW-500J5 | JW-600J5 |
| | No. of load cells | 5 | 5 | 5 | 5 |
| Cell capacity, mains (lb) | 50,000 | 100,000 | | | 200,000 |
| Cell capacity, nose (lb) | 50,000 | 25,000 | 50,000 | 100,000 | 200,000 |
| Kit capacity (lb) | 250,000 | 425,000 | 450,000 | 500,000 | 600,000 |
| Part number | 64001-16J5 | 64001-12J5 | 64001-13J5 | 64001-14J5 | 64001-15J5 |
| Resolution, mains (lb) | 5 | 10 | 10 | 10 | 20 |
| Resolution, nose (lb) | 5 | 2 | 5 | 10 | 20 |
| SOFTWARE | | | | | |
| Load Cell Sampling | Synchronized sampling of all load cells | | | | |
| Conversion rate | 300 conversions/second per load cell | | | | |
| Internal resolution | 16,777,216 (24 bits) | | | | |
| Data (displayed and printed) | Gross weight; individual load cell weights (kg, lb and %); CG location (inches, cm, %MAC). System is calibrated in lb or kg. | | | | |
| Weighing save options | Internal memory; serial interface to download (or synchronize) to a PC | | | | |



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