

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

## Revere Aircraft Weighing System

SPECIFICATIONS					
PARAMETER	DESCRIPTION				
<b>SYSTEM</b>					
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			
<b>KIT CONFIGURATON</b>					
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
<b>SOFTWARE</b>					
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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