

Jack Point Aircraft Weighing System



FEATURES

- Capacity range - 15,000 to 600,000 pounds
- Synchronized sampling of all weight channels result in accurate measurement, minimizing the effect of vibration, oscillations and wind
- User-friendly, color graphic display with touch screen
- Robust and reliable operation
- Accuracy of $\pm 0.1\%$ of applied load, or $\pm 0.02\%$ of channel capacity, whichever is greater
- Center of Gravity calculation function
- G-factor compensation between calibration and operation locations enables accurate and simple operation
- Library of up to 200 aircraft types and characteristics
- Aircraft weights are stored in history file for future comparison and data validation
- Hermetically sealed, compact stainless steel load cells

DESCRIPTION

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 Vishay Revere high performance load cells with Vishay Systems modern advance weighing processor (G4) results in an accurate, high-reliability, robust and easy to use Aircraft Weighing System.

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 or platforms. 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 weight results print-outs.

APPLICATIONS

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

CONFIGURATION





SPECIFICATIONS

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				
Model	JW-15J5	JW-20J5	JW-30J5	JW-40J5	JW-75J5
No. of cells	3	4	3	4	3
Cell capacity (lbs.)	5,000	5,000	10,000	10,000	25,000
Kit capacity (lbs.)	15,000	20,000	30,000	40,000	75,000
Part number	64001-00J5	64001-01J5	64001-02J5	64001-03J5	64001-04J5
Resolution (lbs.)	0.5	0.5	1	1	2
Kit weight (lbs.)	72	78	72	78	72
Kit dimensions (in.)	32.88 X 17.5 X 8.75				
Model	JW-100J5	JW-150J5	JW-200J5	JW-300J5	JW-400J5
No. of cells	4	3	4	3	4
Cell capacity (lbs.)	25,000	50,000	50,000	100,000	100,000
Kit capacity (lbs.)	100,000	150,000	200,000	320,000	400,000
Part number	64001-05J5	64001-06J5	64001-07J5	64001-08J5	64001-09J5
Resolution (lbs.)	2	5	5	10	10
Kit weight (lbs.)	78	72	78	96	110
Kit dimensions (in.)	32.88 X 17.5 X 8.75				
Model	JW-250J5	JW-425J5	JW-450J5	JW-500J5	JW-600J5
No. of cells	5	5	5	5	3
Cell capacity, mains (lb)	50,000	100,000	100,000	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
Load Cell Sampling:	Synchronized sampling of all load cells				
Conversion rate:	300 conversions / second per load cell				
Internal resolution:	16,777,216 (24 bits)				
Software features:	<ul style="list-style-type: none"> • On-board automatic center of gravity calculation • Re-configurable load cell arrangement • 3 weights modes to 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 				



SPECIFICATIONS cont.

Data (displayed and printed):	<ul style="list-style-type: none">• Gross weight• Individual load cell weights (kg, lb and %)• CG location (inches, cm, %MAC)
Weighing save options:	<ul style="list-style-type: none">• Internal memory• Serial interface to download (or synchronize) to a PC
Power:	<ul style="list-style-type: none">• 110 or 230VAC, 1A
Environmental protection:	<ul style="list-style-type: none">• Load cells – IP65• Kit case – high-impact fiberglass carrying case
Environmental conditions: Operating temperature: Storage temperature: Humidity:	<ul style="list-style-type: none">• +14°F to +120°F (-10°C to +50°C)• -4°F to +140°F (-20°C to +60°C)• 95% RH, non-condensing

System content:

- 3 to 5 load cells
- Rugged weighing user terminal
- Thermal printer
- Power supply and power cord
- Center-of-gravity accessory kit
- Rugged fiberglass carrying case

Center-of-gravity accessory kit content:

- Level and level bar
- Plumb bob assembly (2)
- Chalk and line
- Hydrometers (2)
- Fuel dipper
- Hydrometer jar and stand
- Leveling bar
- 50' Steel tape
- Screwdriver
- 12" steel ruler



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