

Jack Point Wireless Aircraft Weighing System



FEATURES

- Wireless operation - easy installation, operation and maintenance
- Capacity range - 15,000 to 600,000 pounds
- Synchronized sampling of all weight channels result in accurate measurement, minimizing the vibration, oscillation and wind effects
- Robust and reliable operation
- Operation range - more than 220 ft. (70m)
- Accuracy of $\pm 0.1\%$ of applied load, or $\pm 0.02\%$ of channel capacity, whichever is greater
- User-friendly hand-held PC user terminal interface
- Library of up to 200 aircraft types and characteristics
- Hermetically sealed, compact stainless steel load cells

DESCRIPTION

JetWeigh-W™ Aircraft Weighing System integrates state-of-the-art technology in wireless communication, digital weighing processing and high-accuracy hermetically sealed load cells. The integration of technologies from Revere Transducers and RFWaves results in an accurate, high-reliability, robust and easy to use Wireless Aircraft Weighing System.

The user terminal, a rugged hand-held PC, communicates with up to 5 remote wireless load cells, eliminating the cumbersome cable connection and simplifying the installa-

tion, operation, and maintenance of the system.

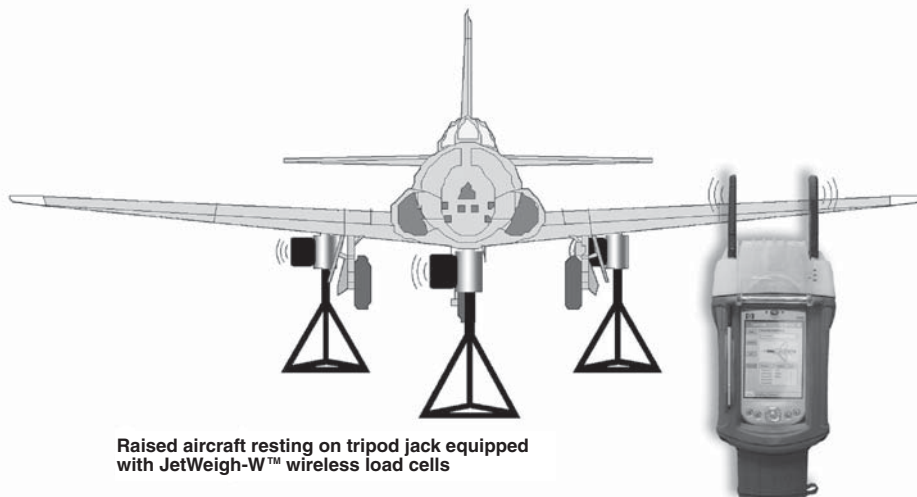
Synchronized sampling of all load cells ensures correct weighing even under severe vibration and oscillations conditions.

The color touch screen user interface provides easy 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-out.

APPLICATIONS

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

CONFIGURATION



Raised aircraft resting on tripod jack equipped with JetWeigh-W™ wireless load cells

JetWeigh-W™ hand-held PC terminal

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-15W	JW-20W	JW-30W	JW-40W	JW-75W
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	64001-00W	64001-01W	64001-02W	64001-03W	64001-04W
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-100W	JW-150W	JW-200W	JW-300W	JW-400W
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	64001-05W	64001-06W	64001-07W	64001-08W	64001-09W
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-250W	JW-425W	JW-450W	JW-500W	JW-600W
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	64001-16W	64001-12W	64001-13W	64001-14W	64001-15W
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:	50 conversions / second per load cell				
Internal resolution:	16,777,216 (24 bits)				
Wireless communication:					
Operating band:	World-wide license-free ISM band, 2400 to 2483.5MHz				
Communication range:	More than 70m				
Networking:	Star topology, point-to-multipoint CSMA communication				
Compliance:	FCC and ETSI				
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, % of MAC) • Arm weights • Lateral weights distribution • Total moments
Weighing save options:	<ul style="list-style-type: none"> • Internal memory • Serial interface to download (or synchronize) to a PC
Power: Operating time: Battery type: Charger:	<ul style="list-style-type: none"> • 50 hours between recharges (typical) • Rechargeable Li-Ion batteries, 1100mAh (Load cells & terminal) • Power adaptor, 110 or 230VAC, 1A
Environmental protection:	<ul style="list-style-type: none"> • Load cells – IP65 • Hand-held terminal – rugged, impact resistant, water resistant enclosure • Kit case – high-impact fiberglass carrying case
Environmental conditions: Operating temperature: Storage temperature: Humidity:	<ul style="list-style-type: none"> • +32°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 wireless load cells
- Rugged hand-held PC user terminal
- Thermal printer
- Power adaptors and power cord
- Center-of-gravity accessory kit
- Rugged fiberglass carrying case

Center-of-gravity accessory kit content:

- Level
- 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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