

## 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.

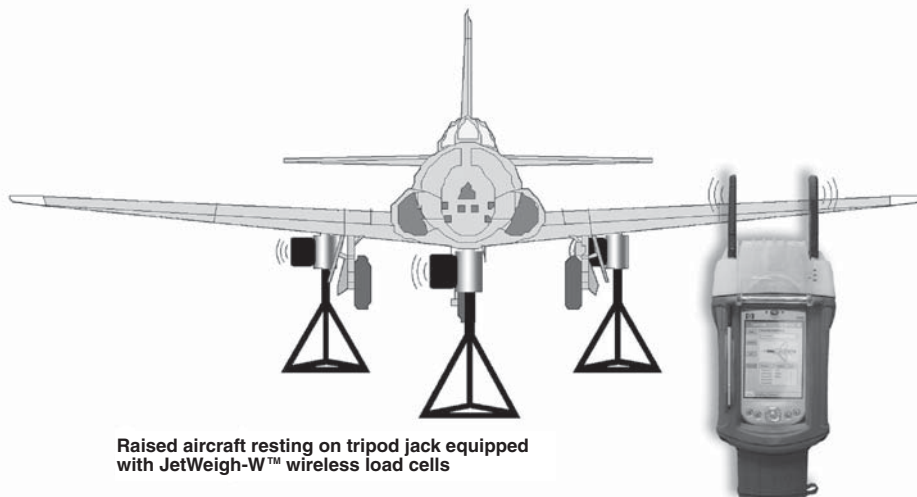
Synchronized sampling of all load cells ensures correct weighing even under severe vibration and oscillations conditions.

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

<b>Accuracy:</b>	0.1% of applied load or 0.02% of channel capacity, whichever is greater				
<b>Calibration method:</b>	Dead weight calibration of load cells in factory				
<b>Model</b>	<b>JW-15W</b>	<b>JW-20W</b>	<b>JW-30W</b>	<b>JW-40W</b>	<b>JW-75W</b>
<b>No. of cells</b>	3	4	3	4	3
<b>Cell capacity (lbs.)</b>	5,000	5,000	10,000	10,000	25,000
<b>Kit capacity (lbs.)</b>	15,000	20,000	30,000	40,000	75,000
<b>Part number</b>	64001-00W	64001-01W	64001-02W	64001-03W	64001-04W
<b>Resolution (lbs.)</b>	0.5	0.5	1	1	2
<b>Kit weight (lbs.)</b>	72	78	72	78	72
<b>Kit dimensions (in.)</b>	32.88 X 17.5 X 8.75				
<b>Model</b>	<b>JW-100W</b>	<b>JW-150W</b>	<b>JW-200W</b>	<b>JW-300W</b>	<b>JW-400W</b>
<b>No. of cells</b>	4	3	4	3	4
<b>Cell capacity (lbs.)</b>	25,000	50,000	50,000	100,000	100,000
<b>Kit capacity (lbs.)</b>	100,000	150,000	200,000	320,000	400,000
<b>Part number</b>	64001-05W	64001-06W	64001-07W	64001-08W	64001-09W
<b>Resolution (lbs.)</b>	2	5	5	10	10
<b>Kit weight (lbs.)</b>	78	72	78	96	110
<b>Kit dimensions (in.)</b>	32.88 X 17.5 X 8.75				
<b>Model</b>	<b>JW-250W</b>	<b>JW-425W</b>	<b>JW-450W</b>	<b>JW-500W</b>	<b>JW-600W</b>
<b>No. of cells</b>	5	5	5	5	3
<b>Cell capacity, mains (lb)</b>	50,000	100,000	100,000	100,000	200,000
<b>Cell capacity, nose (lb)</b>	50,000	25,000	50,000	100,000	200,000
<b>Kit capacity (lb)</b>	250,000	425,000	450,000	500,000	600,000
<b>Part number</b>	64001-16W	64001-12W	64001-13W	64001-14W	64001-15W
<b>Resolution, mains (lb)</b>	5	10	10	10	20
<b>Resolution, nose (lb)</b>	5	2	5	10	20
<b>Load Cell Sampling:</b>	Synchronized sampling of all load cells				
<b>Conversion rate:</b>	50 conversions / second per load cell				
<b>Internal resolution:</b>	16,777,216 (24 bits)				
<b>Wireless communication:</b>					
<b>Operating band:</b>	World-wide license-free ISM band, 2400 to 2483.5MHz				
<b>Communication range:</b>	More than 70m				
<b>Networking:</b>	Star topology, point-to-multipoint CSMA communication				
<b>Compliance:</b>	FCC and ETSI				
<b>Software features:</b>	<ul style="list-style-type: none"> <li>• On-board automatic center of gravity calculation</li> <li>• Re-configurable load cell arrangement</li> <li>• 3 weights modes to meet different environmental conditions</li> <li>• Automatic latitude and altitude adjustment of weight value</li> <li>• Automatic zero tracking</li> <li>• On-board library of up to 200 aircraft types and characteristics</li> <li>• Diagnostic algorithms check for system errors</li> </ul>				

**SPECIFICATIONS** cont.

<b>Data (displayed and printed):</b>	<ul style="list-style-type: none"> <li>• Gross weight</li> <li>• Individual load cell weights (kg, lb and %)</li> <li>• CG location (inches, cm, % of MAC)</li> <li>• Arm weights</li> <li>• Lateral weights distribution</li> <li>• Total moments</li> </ul>
<b>Weighing save options:</b>	<ul style="list-style-type: none"> <li>• Internal memory</li> <li>• Serial interface to download (or synchronize) to a PC</li> </ul>
<b>Power:</b> <b>Operating time:</b> <b>Battery type:</b> <b>Charger:</b>	<ul style="list-style-type: none"> <li>• 50 hours between recharges (typical)</li> <li>• Rechargeable Li-Ion batteries, 1100mAh (Load cells &amp; terminal)</li> <li>• Power adaptor, 110 or 230VAC, 1A</li> </ul>
<b>Environmental protection:</b>	<ul style="list-style-type: none"> <li>• Load cells – IP65</li> <li>• Hand-held terminal – rugged, impact resistant, water resistant enclosure</li> <li>• Kit case – high-impact fiberglass carrying case</li> </ul>
<b>Environmental conditions:</b> <b>Operating temperature:</b> <b>Storage temperature:</b> <b>Humidity:</b>	<ul style="list-style-type: none"> <li>• +32°F to +120°F (-10°C to +50°C)</li> <li>• -4°F to +140°F (-20°C to +60°C)</li> <li>• 95% RH, non-condensing</li> </ul>

**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



## Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at [vpgsensors.com](http://vpgsensors.com).

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.