



# AIRCRAFT WEIGHING SYSTEMS

JetWeigh-W™



## Jack Point Wireless Aircraft Weighing System

### KEY BENEFITS

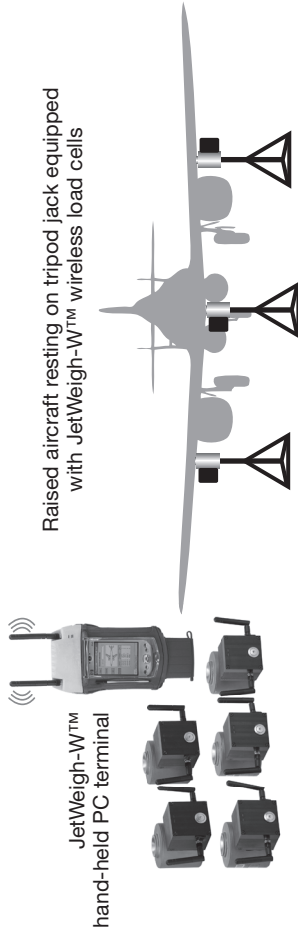
- Wireless operation: easy installation, operation and maintenance
- Capacity range: 15,000 to 600,000 pounds
- Synchronized sampling of all weight channels result in accurate measurement, minimizing the vibration, oscillation and wind effects
- Robust and reliable operation
- Operation range: more than 220 ft. (70 m)
- 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

### APPLICATIONS

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

Datasheet is available on our web site at [www.vishay.com](http://www.vishay.com)  
for JetWeigh-W™ - <http://www.vishay.com/doc?12254>

### Configuration



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

### Specifications

<b>Model</b>	<b>JW-15W</b>	<b>JW-20W</b>	<b>JW-30W</b>	<b>JW-40W</b>	<b>JW-75W</b>
<b>Number 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>Model</b>	<b>JW-100W</b>	<b>JW-150W</b>	<b>JW-200W</b>	<b>JW-300W</b>	<b>JW-400W</b>
<b>Number 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	300,000	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>Model</b>	<b>JW-250W</b>	<b>JW-425W</b>	<b>JW-450W</b>	<b>JW-500W</b>	<b>JW-600W</b>
<b>Number 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

### Specifications (cont'd)

<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>Load Cell Sampling</b>	Synchronized sampling of all load cells
<b>Conversion Rate</b>	50 conversions/second per load cell
<b>Wireless communication</b>	
<b>Operating Band</b>	World-wide license-free ISM brand, 2400 to 2438.5MHz
<b>Communication Range</b>	More than 70m (220ft.)
<b>Compliance</b>	FCC, ETSI, and CE
<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>Automatic latitude and altitude adjustment of weight value</li> <li>On-board library of up to 200 aircraft types and characteristics</li> <li>Diagnostic algorithms check for system errors</li> </ul>
<b>Power</b>	
<b>Operating Time</b>	• 50 hours between recharges (typical)
<b>Battery Type</b>	• Rechargeable Li-Ion batteries, 1100mAh (load cells & terminal)
<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>	• +32°F to +120°F (-10°C to +50°C)
<b>Storage Temperature</b>	• -4°F to +140°F (-20°C to +60°C)
<b>Humidity</b>	• 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

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