JetWeigh-W™
Vishay Revere

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 ±0.1% of applied load, or ±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 Vishay Revere Transducers and Vishay RF Waves 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 installation, 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
JetWeigh-W™  
Vishay Revere  
Jack Point Wireless Aircraft Weighing System

### 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

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**Load Cell Sampling:** Synchronized sampling of all load cells

**Internal resolution:** 16,777,216 (24 bits)

**Software features:**
- 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

**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
### SPECIFICATIONS cont.

**Data (displayed and printed):**
- 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:**
- Internal memory
- Cradle for USB or serial interface to download (or synchronize) to a PC

**Power:**
- **Operating time:** 50 hours between recharges (typical)
- **Battery type:** Rechargeable Li-Ion batteries, 1100mAh (Load cells & terminal)
- **Charger:** Power adaptor, 110 or 230VAC, 1A

**Environmental protection:**
- Load cells – IP65
- Hand-held terminal – rugged, impact resistant, waterproof enclosure
- Kit case – high-impact plastic carrying case, MIL-STD-130

**Environmental conditions:**
- **Operating temperature:** +32°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

### 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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