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 ±0.1% of applied load, or ±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 Revere high performance load cells with 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.

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

CONFIGURATION

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.

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**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

**Conversion rate:** 300 conversions / second per load cell

**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
## SPECIFICATIONS cont.

| Data (displayed and printed): | Gross weight  
|                              | Individual load cell weights (kg, lb and %)  
|                              | CG location (inches, cm, %MAC)  
| Weighing save options:       | Internal memory  
|                              | Serial interface to download (or synchronize) to a PC  
| Power:                       | 110 or 230VAC, 1A  
| Environmental protection:    | Load cells – IP65  
|                              | Kit case – high-impact fiberglass carrying case  
| Environmental conditions:    |  
| Operating temperature:       | +14°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 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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Vishay Precision Group

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