

# Jack Weigh Kit™

Technology to the Limits... *and Beyond*

ISO 9001:2000  
Registered



**Intercomp®**  
advanced weighing technology . . . by any measure

# Intercomp's wireless and cabled Jack Weigh Kits

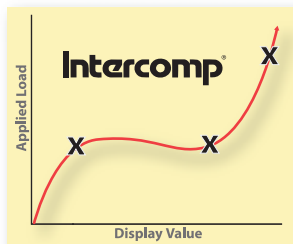
are the aviation industry's most user friendly, accurate and widely used top of jack weighing systems.

ISO 9001:2000 Registered



Intercomp's field proven weighing technology utilizes the world's highest quality load cells for the utmost in accuracy and ease-of-use.

With the most precise load cells available on the market today, Intercomp makes your weighing program as efficient as it is accurate. Intercomp has over 25 years of experience in building high capacity/high accuracy weighing equipment and can meet your most stringent weighing requirements with ease.

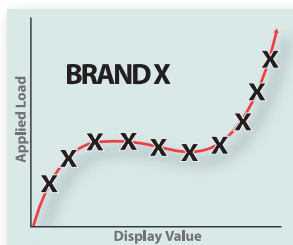


- Intercomp features the industry's highest quality load cells which only require 3 calibration points. Other inferior load cells require 10 or more.
- Intercomp's high quality load cells feature User Configurable Calibration points for optimal linearity calculations.
- Higher quality load cells reduce the calibration workload by only requiring 3 points rather than multiple fixed points.



#### KEY

- Load Cell Output
- X Calibration Point



- Lower quality load cells require numerous calibration points to correct poor linearity performance.
- More calibration points require more time and money be spent in the calibration lab.

## JW™ Digital Output Load Cell

At the heart of the Jack Weigh Kit is Intercomp's technologically advanced digital output load cell. The JW DOLC's have revolutionized the weighing of aircraft. With DOLC's, the analog to digital conversion is performed at the cell itself. This means each cell is its own independently operating scale.

Any JW DOLC can be plugged into any channel or wireless node - there are no precalibrated or color coded channels. And, if a cell, cable or wireless node is damaged, simply replace the unit with an off-the-shelf spare. All Intercomp CPU's, cables, wireless nodes and load cells are completely interchangeable, there's no need to return the entire kit to the manufacture for repair or recalibration. This feature sharply reduces repair and shipping costs, yet ensures you will seldom be without your Jack Weigh Kit.



Our advanced digital output signal is so powerful that it eliminates EMI/RFI, but yet maximizes linearity to provide full range accuracy of  $\pm 0.1\%$ . This field proven technology increases repeatability and virtually eliminates side loading.

- Low profile design ensures each load cell will fit nearly any jack to jack point envelope.
- Interchangeable adapters accommodate a wide range of loading fixtures as described in SAE-AS33559
- Flexibility to weigh a wide variety of aircraft with a standard load cell used in conjunction with readily available custom interchangeable adapters.

## Jack Weigh Kit™

Intercomp's Jack Weigh Kit comes complete with the AC100 CPU, JW load cells, interconnect cables, jack and a/c adapters, battery charger, manuals and MIL-SPEC 810D carrying case to fully protect and transport the system.

A leveling kit complete with all accessories is available as an option. Intercomp also manufactures a complete line of calibration systems traceable to the *National Institute of Standards and Technology*.

Each Intercomp Jack Weigh Kit is designed and tested to meet the stringent United States Air Force specifications for accuracy, reliability, serviceability and performance. The design criteria, combined with proven field performance, ensures that the Jack Weigh Kit is the industry leader for aircraft weighing systems. With its combination of cells and capacities, the Jack Weigh Kit can weigh any aircraft in the world.



# Jack Weigh Kit Solutions



## Wireless Jack Weigh Kit

Intercomp's wireless Jack Weigh Kit eliminates the use of cables. No longer will the user need to run cables between each load cell and the CPU. All Intercomp wireless Jack Weigh kits include:

- **Complete Interchangeability:** If a wireless node is ever broken or damaged, simply replace it with a spare radio. The load cell does not need to be returned for service
- **Multiple Display Options:** The Wireless Jack Weigh Kit can be used with either a PDA, AC100 CPU or PC. If any of these devices are damaged and rendered inoperable, another display device can be used as a spare without programming or calibration.
- **Cable Backup (optional):** Intercomp offers a wireless load cell kit that allows for the use of cables as a backup system.
- Allowing this cable backup is critical in ensuring that the kit is operable in all conditions. There are many conditions that can affect the ability of a load cell kit to transmit over a wireless signal. These include: interference in a hangar, deployed overseas, or rules on transmitting a wireless signal. Not having a cable backup renders the load cell kit worthless if there is ever a problem with the wireless signal. By having this cable backup, you are ensured to always complete your weigh job.

### Wireless Jack Weigh Kit



5,000 lb. /2,500 kg.    10,000 lb. /5,000 kg.    25,000 lb. /12,500 kg.    50,000 lb. /25,000 kg.    100,000 lb. /50,000 kg.

- *Wireless weighing saves time and increases the efficiency and safety of weighing operations.*
- *Intercomp AC Weigh software can be used with a PDA or a PC.*
- *Wireless system can drive up to 50 load cells.*

## AC100™ Central Processing Unit

Intercomp's cabled Jack Weigh Kits come standard with the proven AC100 Central Processing Unit. The AC100 gives you the most sought after functions and features, yet remains user friendly at all times.

*All Intercomp cabled Jack Weigh Kits include:*

- Easy to read jumbo sized 4 line x 20 character alphanumeric LCD screen.
- Push button menus for computations, memory storage, and full c.g. printout.
- Plug-and-Play capability with no switches to flip or knobs to turn.
- Calibration performed through use of the keypad.
- Meets EMI-RFI requirements of MIL-SPEC 461.
- Operates on all power sources.
- Fully weatherproof.

### AC100 Central Processing Unit



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- *AC100 can be used as the display for a wireless system with onboard printing.*
- *Existing AC100s can be upgraded to wireless versions.*
- *System can drive up to 32 load cells.*

## Jack Weigh Kit™ Features

- All JW DOLCs wireless nodes and cables are interchangeable – no precalibrated channels
- Spare JW DOLCs, wireless nodes and cables available with kit
- Accuracy of  $\pm 0.1\%$  of applied load or  $\pm 0.02\%$  of channel capacity
- Center of gravity computation – input of arm lengths automatically computes c.g.
- Jack weigh kit can drive up to 50 cells for weighing multiple points during cradle operations
- Latitude and altitude correction built into software
- Shows groups of weights for cradle weighing
- Gross, net and tare weight functions
- Self-diagnostics check
- EMI/RFI protection
- Auto zero tracking
- Digital filtering – average of several internal weights gives steady readings for unstable conditions
- Load cells are fully sealed to prevent environmental damage
- Input/Output: RS232, RS485 or 20mA for interface with computers
- Operates on all power source 12VDC, 24VDC, 120/220VAC
- Operating temperature 14°F to 122°F/10°C to 50°C
- Storage temperature -40°F to 170°F/-40°C to 75°C
- Full print out of all functions
  - individual cell and total weight
  - net, tare and group weight
  - aircraft ID, date, time, user, location, kit serial #
  - calibration performance
  - center of gravity and arm length

## Handheld Wireless Features

- AC Weigh Software can be used with handheld PDA or PC
- Handheld PDA displays up to 50 cells for measuring multiple weigh points during cradle operations
- Store weighings to be viewed, printed, or exported to AC Weigh PC software
- Save multiple aircraft types with their CG properties
- Printout full-page results with an IR or Bluetooth enabled printer
- 868 Mhz, 900 Mhz and 2.4 Ghz Frequency options
- MAC %

## AC100 CPU Features

- Large 2.6" LCD screen with back light for low light visibility
- 0.5" high characters – 4 x 20 screen
- AC100 CPU displays up to 32 cells for measuring multiple weigh points during cradle operations
- One touch print, cg, set arm, zero buttons
- Water and oil tight control panel
- Lbs/kg selectable readout
- Adjustable viewing angle

## Custom Applications

Intercomp manufactures custom systems for virtually any application to meet the most exacting special requirements of customers throughout the world. Please contact Intercomp for further details should your project call for a custom weighing application.

- Multiple adapters for numerous applications
- Threaded top and bottom
- 500 lbs. to 100 tons
- 10,000 divisions

### Tension/Compression



Intercomp Company, Inc. is the world's largest manufacturer of portable weighing solutions, and has been serving the industrial, material handling and transportation industries for over 25 years. With ISO 9001 Registered facilities in the United States and United Kingdom and all standards traceable to NIST, we can deliver the products to meet your most exacting specifications. See for yourself how **Intercomp provides advanced weighing technology... by any measure.**

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