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PADS™

PORTABLE AIRCRAFT
DIGITAL SCALE



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PADS™

PORTABLE AIRCRAFT DIGITAL SCALE

When weighing an airliner, nothing is more important than accuracy and reliability. The McCoy PADS System delivers both. Its accuracy, dependability, ease-of-use and maintainability has led major aircraft manufacturers to choose PADS as the exclusive system for weighing their aircraft. PADS can be used for all aircraft and for other high accuracy weighing applications. Both the scale and display are ruggedized against physical abuse, shock and vibration, and are certified for use in Hazardous areas. Because its electronics assemblies are environmentally sealed and its stainless steel sensors are seal welded, the scale can be reliably set down into floor recesses.

Specifications		
	25K Scale	60K Scale
Capacity	25,000 lbs	60,000 lbs
Proof Load	37,500 lbs	90,000 lbs
Size	28 X 28 X 4	32 X 29 X 4
Weighing Platform	24 X 21	29 X 26
Tire Loading Area	22 X 19	22 X 27
Weight	110 lbs	160 lbs
Maximum Tire Loading	450 psi	450 psi
Maximum Floor Loading	200 psi	200 psi
Operating Temperature	30 - 130 F	30 - 130 F
Storage Temperature	0 - 150 F	0 - 150 F
Resolution	1 lb max	1 lb max
Power: Internal standard batteries		
Accuracy: Total error +/- 1% of reading or 10 lbs for 60K-PAD or 6 lbs for 25K-PAD, whichever is greater. This includes the combined effects of linearity, repeatability, creep (4 hrs), and platform loading errors.		

ADVANCED

PADS are more advanced than other aircraft digital scales in terms of accuracy, dependability, ease-of-use, and maintainability. McCoy Global specializes in the design and manufacture of ruggedized weighing sensors and systems, which must withstand physical abuse, shock, and vibration over many years of operation.

EXPERIENCED

Built to satisfy the most demanding requirements and incorporating the McCoy Global experience in design of rugged instrumentation for aircraft and missile weighing. PADS makes available to the airline and aerospace industries a higher level of cost effective performance.

SUPERIOR PERFORMANCE

PADS combines high accuracy at 25,000 lbs, or 60,000 lbs capacity with well proven measurement techniques, advanced digital calibration electronics to achieve a superior degree of stability and performance that enables PADS to be used for all aircraft, and many other high accuracy weighing applications. Through the innovative use of field-proven technology, conservative construction and the careful selection of materials, PADS provides superior performance using off the shelf load cells. These load cells are easily services.

RUGGED

The rugged display and sealed switches permit rapid, trouble-free operation. Displays are completely interchangeable. Displays are backlit, highly visible six-digit, 1 inch tall Liquid Crystal displays. It is easy to read in sunlight or low-light areas in lbs or kgs, and is sealed from harsh environments.

FEATURES AND BENEFITS

- Programmable averaging and motion detection
- Flexible battery saving configurations
- Sealed environmental protection
- No measurement errors due to side-loads or non-level (up to 1 degree) platforms and no damage up to 10 degrees
- Comprehensive Self Diagnostics
- Corrects for variations in the local gravitational constant
- Minimum 100 hour battery life typical
- Push-button Tare
- 1 lb. or 1 kg. Resolution
- Ball and knife-edge load cell mounting
- Four each double-ended shear beam standard load cells
- Recessed hand-holds for easy handling by two people
- Independent mounted feet for use on uneven surfaces
- Specially designed high strength weight bridge without welds

HAZARDOUS ENVIRONMENTS

PADS is available for use in safe areas as well as certified for use in hazardous areas.

WIRELESS OR HARD-WIRED

PADS is available as a stand-alone, battery powered platform scale, or as a component of the McCoy Global Platform Weighing System with a Radio Frequency Output or a Digital Hard-Wired Output from the platform. PADS provide accuracy, features and benefits never before available for aircraft weighing operations.

RETROFITS

PADS electronics, display, and battery pack assemblies are available to retrofit existing platform scales produced by others. End User's and OEM's ship their platform scales to McCoy Global to have the existing electronics display replaced with the reliable and accurate McCoy Global equipment. This approach utilizes the existing frame and weight bridge to reduce costs to the end user and OEM to dramatically extend the operating life of their existing platform scales, and increase the reliability and accuracy of the platform scales.

