

Airport Luggage Weighing Load Cells

Industry: Weighing

Summary

Customer Challenge

Airport luggage scales must deliver fast, accurate weight measurements under constant use. High passenger volume, uneven luggage placement, vibration, and environmental exposure can reduce accuracy in traditional weighing systems. Airports need compact, durable solutions that integrate easily with digital check-in and baggage systems.

Interface Solution

Interface's SSB Sealed Beam Load Cells provide a reliable solution for luggage to be weighed. When connected to the WTS-AM-1E Wireless Strain Bridge Transmitter Module, force results are wireless transmitted to the WTS-BS-6 Wireless Telemetry Dongle Base Station on the customer's PC. Data can be logged and graphed with included Log100 software.

Results

The SSB load cell and wireless solution delivers fast, accurate, and repeatable luggage weight measurements with minimal recalibration. The sealed design reduces maintenance, improves system reliability, and enhances passenger throughput at check-in and self-service kiosks.

Materials

- SSB Sealed Beam Load Cells
- WTS-AM-1E Wireless Strain Bridge Transmitter Module
- WTS-BS-6 Wireless Telemetry Dongle Base Station with Log100 Software included
- Customer PC or Laptop

How It Works

1. SSB load cells are mounted beneath the weighing platform, typically at each corner. A luggage load is put on top of the weighing platform, and the SSB measures the forces applied as the kiosk reacts to the load.
2. Luggage weight applies a vertical force to the load cells. When connected to the WTS-AM-1E Wireless Strain Bridge Transmitter Module, the force results are wireless transmitted to the WTS-BS-6 Wireless Telemetry Dongle Base Station connected to the customer's PC.
3. The force results can be displayed, logged, and graphed with included Log100 software.

