

Division Systems™
Baggage Scale System

Product Specifications

I. BASIC SYSTEM CONFIGURATION

The baggage scale system is comprised of four or five modular sub-systems. They are the indicator assembly, the remote switch assembly, the remote display assembly, the weighing platform and, optionally, a second remote display assembly.

II. INDICATOR ASSEMBLY

The indicator assembly contains the power supply, all analog circuitry necessary to amplify and convert the output of the weighing platform to a digital signal, and a microprocessor to interpret and display the weight data.

Mechanical Specifications:

Size: 12" L x 5 1/4" W x 2" H

Material: Anodized aluminum back plate, anodized aluminum cover.

Connections: 9 pin "D subminiature" type female connectors provided for the weighing platform and switch module. 25 pin "D subminiature" type female for remote displays. Standard 2 pole 3 wire grounding 125 VAC plug on a 5' cord. 230 VAC requirements are optional.

Electronic/Electrical Specifications:

Load Cell
Excitation: 5 VCD fixed

Analog Input: 1 mv/v nominal

Analog Sensitivity: 2.5 uv/division

Sample Rate: 8/second typical

Resolution: 1:24000 internal
1:2000 displayed

Fuse: 0.5 Amp PCB mounted PCTRON

Power Required: 115 VAC, 50/60 Hz, 0.2 Amps
(Optional) 230 VAC, 50/60 Hz, 0.1 Amps

III. REMOTE DISPLAY ASSEMBLY

The Remote Weight Display Assembly contains a four-digit, red LED display for weight data. A flange and screw-down clamp arrangement is provided to allow for mounting through a rectangular opening in the side of a counter.

Mechanical Specifications:

Size:	4" W x 2 13/16" H x 2" D
Material:	304 stainless steel bezel, anodized aluminum rear cover
Connections:	A 25-pin "d subminiature" type female connector is provided at the rear of the assembly to connect to indicator
Connecting Cable:	An 8', 25 conductor shielded cable with 25 pin "D subminiature" type male connectors is provided with this assembly to connect to indicator
Cutout Dimension:	2-7/16" H x 3-11/16" W

Electronic/Electrical Specifications:

Display Type:	4 digit, 0.56" high red low current LED
Display Drive Type:	Multiplexed

IV. REMOTE SWITCH ASSEMBLY

The remote switch assembly contains rocker switches to zero the weight display, change the weight display unit from pounds to kilograms, and turn the weight display off. A flange and screw-down clamp arrangement is provided to allow for mounting through a rectangular opening in the side of a counter.

Mechanical Specifications:

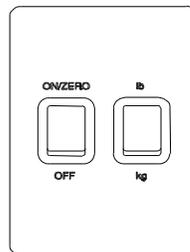
Size:	2" W x 3" H x 2" D
<u>Functions</u>	
Off-On-Zero:	Allows the weight display(s) to be turned off/on and to be zeroed.
LB-KG:	Switches the weight display between lb and kg.
Cable:	8' (4 conductor) shielded cable with a 9-pin "D subminiature" type male connector is provided for connection to the indicator
Cutout Dimensions:	2 1/2" H x 1 7/8" W

V. OVERALL SYSTEM SPECIFICATIONS

Capacity x Resolution:	400 x 0.5 lb 180 x 0.2 kg	500 x .5 lb 226 x .2 kg
Calibration:	Two point, semi-automatic digital calibration	
Display Update Rate:	2 per second typical	
Auto Zero Tracking:	Programmable, choices are off / .5 / 1.0 / 3.0	
Platform Sizes:	Up to 48" x 48" (DFW Series) All NTEP approved for use in commercial weighing applications.	

VI. OPERATION

Simplicity has always been our policy when it comes to operation. The **Division™** Airline Baggage Scale was designed to be the user-friendliest scale built. There are only five functions the user controls via two remote switches.



The switch on the left side is the ON/OFF/ZERO switch. Toggling this switch down turns the scale off. The center position is the on position. The top position is a momentary switch. Toggling the switch up will zero the scale. position

The switch on the right controls your weigh units. The “up” position is pounds; the “lower” position is kilograms. The scale display will indicate what weigh mode the scale is displaying.

Note: Always make sure nothing is on the scale when you turn it on.

DIVISION AIRLINE BAGGAGE SCALE QUICK CALIBRATION PROCEDURE

- 1) Put scale in "lb" mode.
- 2) Place known weight (at least 100 lb) on platform.
- 3) If displayed weight is different than the known weight, a calibration adjustment is required.

NOTE: CALIBRATION ADJUSTMENTS ARE MADE VIA THE REMOTE SWITCHES

- 4) Remove Platform.
- 5) Remove Main Control Box located under scale's platform.
- 6) Remove calibration access panel on top of main control box enclosure.
- 7) With nothing on the weighbridge (top frame), flip red switch to "cal" position. A flashing "C" will appear on the left of the display.
- 8) Toggle the on/off/zero switch to "zero", and then back to the center position. Display should read "ENT 0."
- 9) Place known weight (at least 100 lb) on platform.

To go up in weight value, leave lb/kg switch in the "lb" position and "click" the on/off/zero switch to "zero" (up). For each "click", the displayed weight will increase one graduation at a time. With the switch depressed, the advancement is rapid.

To go down in weight value, put the lb/kg switch in "kg" and REPEAT the "click" to "zero." You will notice the value goes down one graduation at a time. Depress if needed. When the displayed weight matches the known weight, **Return lb/kg switch back to lb position before proceeding to the next step.**

Once the displayed weight matches the known weight on the platform, flip the "cal" switch back to "operation." The display should read "ENT S" and return to the calibrated weight value. Once confirmed, remove the weight and check zero. Repeat steps above if necessary. Replace platform and re-power unit.

If any other indication appears, or if it does not accept the calibration adjustment, please call Division Systems immediately at 901/366-4220.

DIVISION AIRLINE BAGGAGE SCALE PARAMETER RESET PROCEDURE

1. Remove calibration access panel on top of main control box enclosure (usually located under the scale's platform).
2. Flip the red switch to the "cal" position.
3. Push and hold the zero button down while disconnecting power. Then reconnect power.
Note: You must push and hold the zero button during step 3 and 4.
4. The readout will display "r 1.X" then "EREP" then "Rel O."
5. Release zero button. The readout will display "ENT d."
6. Flip the red switch to the operate position.
7. It is now required to calibrate the scale.

If any other indication appears, or if it does not accept the calibration adjustment, please call Division Systems at 901/366-4220.

DIVISION AIRLINE BAGGAGE SCALE WIRING CONNECTIONS

Load Cell Connector:
(9 pin "D" subminiature)

P3-1 Chassis Ground
P3-2 + Signal
P3-3 - Signal
P3-4 +Excitation
P3-5 -Excitation
P3-6 +Sense
P3-7 -Sense
P3-8 NC
P3-9 NC

Remote Switch Connector:
(9 pin "D" subminiature)

P4-1 Zero
P4-2 Convert
P4-3 On/Off
P4-4 Select Raw
P4-5 Select Parameter Setting
P4-6 NC
P4-7 NC
P4-8 NC
P4-9 Switch Return/Ground

Remote Display Connector:

(P1 & P2)
P1-1 Digit 4
P1-2 Segment e
P1-3 Segment d
P1-4 Segment d.p.
P1-5 Segment c
P1-6 Digit 3
P1-7 Digit 2
P1-8 Segment g
P1-9 Digit 1
P1-10 Segment f
P1-11 Segment a
P1-12 Segment b
P1-13 Digit 8
P1-14 Return 1
P1-15 Scan 1
P1-16 Scan 5
P1-17 Scan 4
P1-18 Return 2
P1-19 Return 3
P1-20 Return 4
P1-21 Return 5
P1-22 Return 6
P1-23 Digit 5
P1-24 Digit 7
P1-25 Digit 6