Avery Weigh-Tronix

ZP
900 DIGITAL POST, MAIL & SHIPPING SCALE

High performance post, mail & shipping scale designed for demanding shipping environments.

Technical Specification

DESCRIPTION

The ZP900 is a highly accurate digital post, mailing and shipping scale. This high speed, high performance shipping scale will display and transmit data and integrate with back office to POS systems. It provides the flexibility needed to manage vital weight data within your operation.

Features the very latest Quartzell™ technology to guarantee speed and accuracy. Communicates via RS232, or optional USB-HID and Ethernet, allowing easy integration into existing third party software systems used around the world.

SPECIFICATIONS

GENERAL

Connectivity	2 x RS232 Bi-directional
	Optional 2 x USB HID (Mini USB)- OPOS or UPOS Required on Host PC 1 x Ethernet port (server only)
Display Options	Up to 2 active displays: One weight indicator and one remote display. Options available are base mounted display, pole mounted display, pole mounted dual display and desk mount displays
Supported Protocols	RS232 & Ethernet: SMA, NCI, ECR and D901 USB HID: OPOS- Supported on Microsoft operating systems with Windows XP and Windows 7 32/64 bit. UPOS- Supported on Microsoft operating systems Windows 7 32/64 bit, Windows 8 32/64 bit and Windows 10 32/64 bit.
Unit of Measure	1 unit of measure is standard in lb or kg. A 2nd unit of measure in lb, kg, grams, oz or lb-oz can be enabled
Capacity Selections	Two main base capacities available, 70 lb (35 kg) and 150 lb (80 kg) both using single or multi-range operation. Configurable up to 3 ranges with resolution up to 10,000 divisions per range

GENERAL

Incremental Selections	Multiples of 1, 2 or 5 with division size starting at 0.001
Metrology Selections	Capacity, Division Size, Units of Measure, Motion, Auto Zero Tracking (AZT), Filtering, Initial and Operating Zero Range, Over/Under Capacity Ranges, Multi-Range/Interval Operation and Normal Scale/Weight Classifier Rounding
Time and Date	Battery back up time/day/year (12 hour or 24 hour format)
Calibration	Two to five points stored calibration with Gravity Compensation and Initial Start-Up Gravity adjustment prompting All metrology data stored directly in the base
Digital Filtering	Harmonizer filtering available for unstable installations
Self Diagnostics	Display, keys, serial ports, digital scale readings (crystal counts and compression and tension frequencies)

USER INTERFACE

Keypad	ZERO, F1 and four navigation keys
Status Annunciators	Zero, Motion, Gross, Battery Status, Weight Range 1/2/3, lb, kg, alternate unit of measure, optional Ethernet activity
Display	IBN illuminated, 0.5" (13 mm) high 7 segment 7-digit, green on black background for high contrast and wide angle viewing
Displayed Resolution	Agency approved up to 10,000 divisions per range with up to 3 range settings
Display Rate	Selectable 1, 2, 5, or 10 times per second

Desk-mount displays
Operator and Customer

Pole-mount displays
single or double-sided

Base-mount
Operator Display

PHYSICAL /ENVIRONMENTAL

Base Enclosure	Robust aluminum die cast housing fitted with lipped stainless steel weight platter that is securely fixed to the base. The base is also fitted with four adjustable anti-slip feet standard
Display Enclosures	ABS plastic
Load Cell Technology	High accuracy digital Quartzell
Operating Temperature	41° F to 104° F / +5° C to 40° C (Approvals) at 10 to 90% humidity -4° F to 140° F / -20° C to 60° C (industrial) at 10 to 90% humidity
Return to Zero Speed	Stable Zero using up to 10% capacity 1.20 seconds ; 10% to full capacity 1.40 seconds
Humidity	10% to 90% relative, non-condensing
Base Construction	Clam shell base design with a centrally positioned suspended digital Quartzell cell
Overload Protection	Up to 1100% overload protection based off the 80 kg base structure via our patent-pending spring protection system
Corner Loading	100%
IP Protection	Designed to meet IP31

BASE CAPACITY/RESOLUTION

Base Size	Imperial Capacity and Resolution Available			Metric Capacity and Resolutions Available		
9" x 12" (230 mm x 305 mm)	Max1/d1	Max2/d2	Max3/d3	Max1/d1	Max2/d2	Max3/d3
70 lb / 35 kg base				10 kg x 1 g		
				20 kg x 2 g		
	70 lb x 0.01 lb			30 kg x 5 g		
	0-10 lb / 0.002 lb	0-70 lb / 0.01 lb		35 kg x 5 g		
	0-10 lb / 0.002 lb	0-30 lb / 0.005 lb	0-70 lb / 0.01 lb	0-5 kg / 0.001 kg	0-30 kg / 0.005 kg	
				0-6 kg / 0.001 kg	0-30 kg / 0.005 kg	
				0-6 kg / 0.001 kg	0-20 kg / 0.002 kg	0-30 kg / 0.005 kg
	70 lb x 0.2 oz			0-6 kg / 0.001 kg	0-20 kg / 0.002 kg	0-35 kg / 0.005 kg
	0-10 lb x 0.05 oz	0-70 lb / 0.2 oz		0-6 kg / 0.001 kg	0-35 kg / 0.005 kg	

Base Size	Max1/d1	Max2/d2	Max3/d3	Max1/d1	Max2/d2	Max3/d3
12" x 14" (305 mm x 350 mm)						
70 lb / 35 kg base				10 kg x 1 g		
				20 kg x 2 g		
	70 lb x 0.01 lb			30 kg x 5 g		
	0-10 lb / 0.002 lb	0-70 lb / 0.01 lb		35 kg x 5 g		
	0-10 lb / 0.002 lb	0-30 lb / 0.005 lb	0-70 lb / 0.01 lb	0-5 kg / 0.001 kg	0-30 kg / 0.005 kg	
				0-6 kg / 0.001 kg	0-30 kg / 0.005 kg	
				0-6 kg / 0.001 kg	0-20 kg / 0.002 kg	0-30 kg / 0.005 kg
				0-6 kg / 0.001 kg	0-20 kg / 0.002 kg	0-35 kg / 0.005 kg
	70 lb x 0.2 oz			0-6 kg / 0.001 kg	0-35 kg / 0.005 kg	
	0-10 lb / 0.05 oz	0-70 lb / 0.2 oz				

Base Size	Max1/d1	Max2/d2	Max3/d3	Max1/d1	Max2/d2	Max3/d3
12" x 14" (305 mm x 350 mm)						
150 lb / 80 kg base	100 lb x 0.01 lb			50 kg x 5 g		
	150 lb x 0.02 lb			80 kg x 10 g		
	0-10 lb / 0.005 lb	0-100 lb /0.01 lb		0-5 kg / 0.002 kg	0-50 kg / 0.005 kg	
	0-10 lb / 0.005 lb	0-150 lb / 0.02 lb		0-5 kg / 0.002 kg	0-75 kg / 0.010 kg	
	0-10 lb / 0.005 lb	0-100 lb / 0.01 lb	0-150 lb / 0.02 lb	0-20 kg /0.002 kg	0-50 kg / 0.005 kg	0-80 kg / 0.01 kg
	0-10 lb / 0.1 oz	0-100 lb / 0.2 oz		0-20 kg / 0.002 kg	0-80 kg / 0.01 kg	
	0-10 lb / 0.1 oz	0-150 lb / 0.5 oz				
	0-10 lb / 0.1 oz	0-150 lb / 0.5 oz	0-150 lb / 0.5 oz			
	100 lb x 0.2 oz					
	150 lb x 0.5 oz					

ELECTRICAL

Circuitry Protection	RFI, EMI and ESD protection

OPTIONS

Ball Top Option	Designed to fit on the 12" x 14" (305 mm x 355 mm) base, this 10 ball stainless steel ball top makes it ideal to roll heavy boxes on and off the scale
Carry Handles	Optional carry handles can be retro fitted to allow the scale base to be easily carried around
Counter Lock Down Plate	Bolt down plate to stop the scale base from being moved from the counter
USB Option	2 USB ports to communicate to 2 PCs
Ethernet Option	1 Ethernet port to communicate to 1 PC
Internal Battery Option	Battery pack mounted on the rear of the base with internal recharger. 20 hours operation between charges (charge time 4 hours)

ZP900 POST & SHIPPING SCALE *Technical Specification*

INDICTOR SHOWN

7.92 [201 mm]
17.38 [442 mm]
12.83 [326 mm]
4.72 [120 mm]

3.29 [84 mm]
4.49 [114 mm]
2.73 [69 mm]

4.43 [113 mm]
9.28 [236 mm]

3.77 [96 mm]

4.46 [113 mm]
3.98 [101 mm]
30°
DESKTOP SURFACE

g 4.93 [125 mm]
h
f 7.87 [200 mm]
13.74 [349 mm]

a
b
e
FOOT 1.61 [41 mm]
i

1.16 [30 mm]
d
c
.82 [21 mm]
1.29 [33 mm] MAX
.80 [14 mm] MIN
j
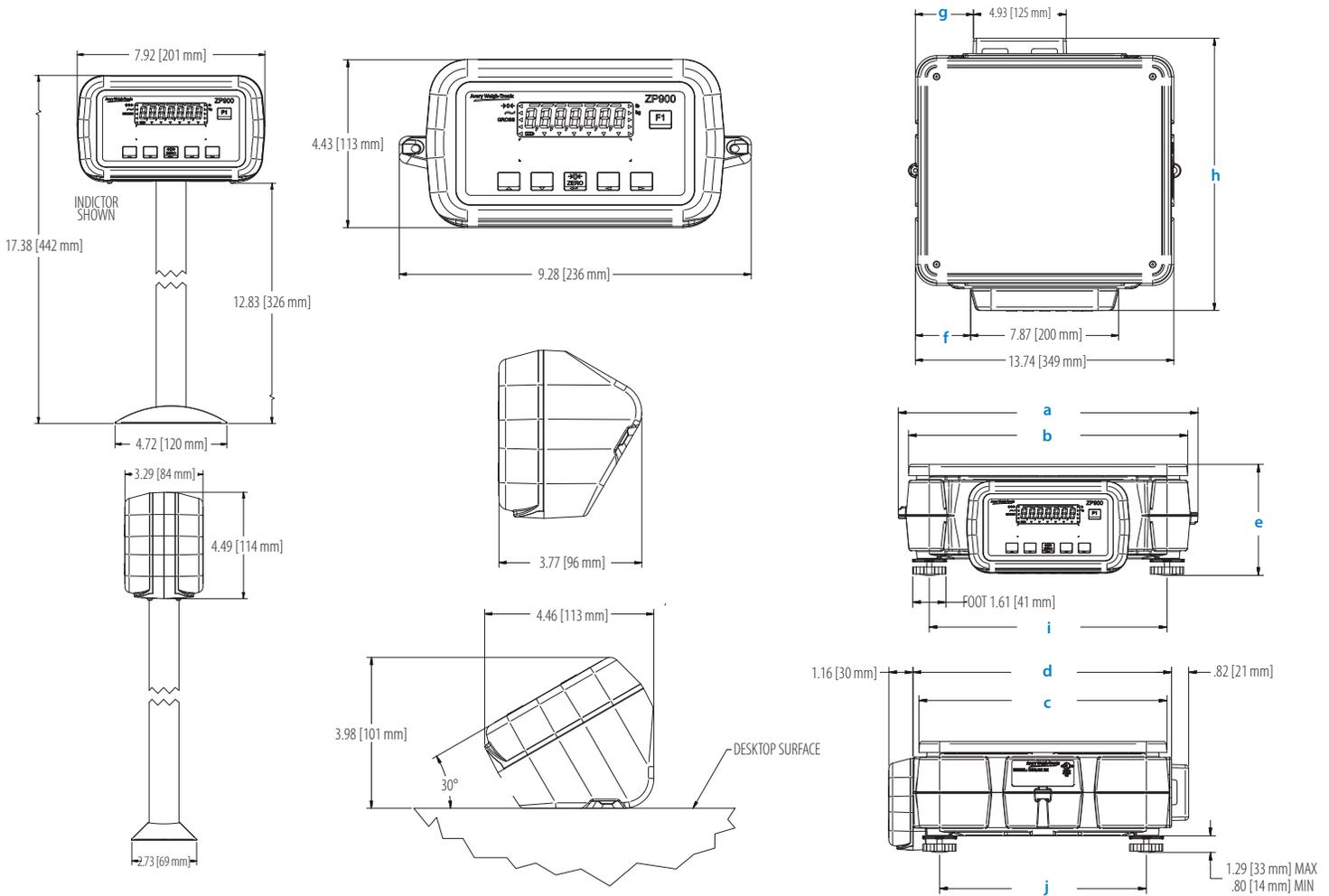
DIMENSIONS (inches)

Base Size	a	b	c	d	e	Max	Min f	g	h	i	j
9" x 12"	13.00	12.00	9.00	9.50	5.75	5.27	2.18	2.33	11.50	10.00	7.00
12" x 14"	14.50	13.50	12.00	12.50	5.86	5.37	2.93	3.08	14.50	11.50	10.00

DIMENSIONS (millimeters)

Base Size	a	b	c	d	e	Max	Min f	g	h	i	j
230 mm x 305 mm	330	305	228	241	146	134	55	59	292	254	178
305 mm x 350 mm	368	343	305	318	149	136	75	78	368	292	254

APPROVALS

Agencies
pending

10,000d NTEP up to 3 multi-range (Certificate No 15-035)
10,000 Canadian AM* approval multi-range
10,000d EC* /OIML* multi-range

NTEP   OIML   CE   c UL us LISTED   Measurement Canada Approved

Avery Weigh-Tronix

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V4 AWT35-501422