Avery Weigh-Tronix

375 CHECKWEIGHER

Checkweighing solutions for food processing and beyond.

Technical Specification



DESCRIPTION

Certified by NSF to NSF/ANSI Standard 3-A and with IP69K approval, the Avery Weigh-Tronix ZQ375 Checkweigher is a fast and easy solution for food environments and beyond.

Fully stainless steel construction with minimal food trap areas for ease of cleaning.

High and low capacity base designs automatically transfer shock loads and overloads away from the load cell.

From straightforward checkweighing to complete visibility of weighing data and statistics, the ZQ375 provides you with the information you need through Wireless, USB or Ethernet to maximise performance and profitability.

SPECIFICATIONS

PERATING APPLICATIONS	
Quick Check Application	\pm Target check mode with adjustable 6 segmented red under, orange over and large green accept bar.
Gross/Net Checkweighing Application	Gross/net checkweighing mode with adjustable segmented red under, orange over and green accept bar. Built in transaction counter. Pack run. Configurable standard deviation and Xbar R.
Advanced Checkweighing Application	500 PLU storage, weight and percentage checkweighing settings with fully adjustable segmented red under, orange over and green accept, under over alarms. Full range of built in statistical packages, transaction counter, pack run, custom and standard deviation data capture, Xbar R, negative checkweighing and auto tare.
Grading Application	Up to 10 easy-to-set grading bands

ZQ375 CHECKWEIGHER Technical Specification

GENERAL

Unit of Measure	Three independently configurable (Pounds, Kilograms, Ounce, Gram, Pound/Ounce, Custom)							
Capacity Selections	Base capacities 5lb to 500lb (3kg to 200kg) configurable 999,999 with decimal located zero to five places							
Incremental Selections	Multiples and sub-multiples of 1, 2, 5							
Programmable Selections	Zero range, motion detection, automatic zero tracking, five point linearization							
Time and Date	Battery backed up time/date/year (12 hour or 24 hour format)							
Calibration	Two to five points stored							
Analog to Digital Measurement Rate	80 Hz							
Internal Resolution	53,687,100 counts per mV/V per second							
Digital Filtering	Harmonizer filtering with adaptable constant and threshold							
Self Diagnostics	Display, keys, inputs, outputs, serial port, installed options, and last 10 Error messages							
JSER INTERFACE								
Keypad	Ten button knife and chemical resistant with audible keypress feedback							
Operational Keys	Zero, Tare, Print, Select, Units, Under, Target, Over, ID, F1 Function							
Status Annunciators	Zero, Motion, Gross, Net, Tare, Count, Print, Battery Status, Set Point 1/2/3, Over/Under/Accept bar graph lb, kg, gram, oz, Preset Tare, Percentage, Active Ethernet connection							
Display	IBN illuminated, 0.8" (20mm) high 8-digit, nine segment display, green on black background for indoor use. Bar graph: 6 red under segments, large green accept segment and 6 orange over segments. 22 annunciators for status and mode identification.							
Display Rate	Selectable (1,2,5,10) times per second							
Motion/instability GROSS NET TARE COUNT PRINT	Segmented under weight range Accept band Segmented over weight range b kg g oz PT %							
itatus Annunciators Batter	ry status Set point Ethernet link Custom Transaction							

Avery Weigh-Tronix ZQ375 →0÷ GROSS NET TARE COUNT PRINT . SP1 + TARGET OVER ID F1 **→0**< zero

annunciators

status

counter

Avery Weigh-Tronix

Enclosures			Cert	ified hv	NSE to N	SE/ANSI S	tandar	d 3-A 1415	59-1 -201	0. food-c	arade 30	4 brushe	d stainle	ss steel	
Lifelosures			e	Certified by NSF to NSF/ANSI Standard 3-A 14159-1 -2010, food-grade 304 brushed stainless steel enclosure (IP69K certified) with GORE® Vent ventilation and column-mounted to a range of stainless steel pickled and electropolished IP66 and IP69K bases.											
Operating Temperate	ure		14° F to 104° F / -10° 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												
Humidity			10%	10% to 90% relative, non-condensing											
Base Construction			ć	Easy to clean, certified by NSF to NSF/ANSI Standard 3-A, fully stainless steel food-grade 304 brushed base construction with pickle and polish weigh pan and column suitable for food contact areas. Designed with breakaway load transfer system to help fully protect the loadcells from unwanted overloads and shock lo								with			
Overload Protection				Torsion base: 500% Diamond base: 150%											
Corner Loading			100	%											
IP Protection			Tors	Torsion base BSG: IP65 (NEMA 4X) Torsion base BSF: IP69K Diamond base BS: IP69K											
Approved Accuracy			Tors	ion Base	BSF: 5000	d NTEP ai	nd Mea	EC /OIML) surement (asurement	Canada (
ASE CAPACITY/RES	OLUTIO	ON	Base	e size			R	Resolution				Resolution (Europe)			
IP66 BSG Torsion bas	se		8.75	8.75" x 8.75" (220mm x 220mm)				x 0.002 lb		5,		3 x 0.001 kg			
NEMA 4X			12":	x 14″	(310mm	x 350mm	n) 3 6	30 x 0.01 lb (15 x 0.005 kg) 15 x 60 x 0.02 lb (30 x 0.01 kg) 30 x				5 x 0.002 kg 15 x 0.005 kg 30 x 0.01 kg 15 x 0.02 kg			
IP69K BSF Torsion base		8.75	8.75" x 8.75" (220mm x 220mm)				5 x 0.001 lb (2.5 x 0.0005 kg)				3 x 0.001 kg				
			12":	× 14″	(310mm	x 350mm	n) 2 5	0 x 0.002 5 x 0.005 0 x 0.01 b 00 x 0.02	b (12.5 x (25 x 0	0.002 kg) 0.005 kg)	6 x 0.002 kg g) 15 x 0.05 kg 30 x 0.01 kg 60 x 0.02 kg				
P69K BS Diamond base				20" x 20" (510mm x 510mm) 24" x 24" (610 mm x 610mm)				100 x 0.02 lb (50 x 0.01 kg) 200 x 0.05 lb (100 x 0.02 kg) 200 x 0.05 lb (100 x 0.02 kg)				45 x 0.01 kg N/A 90 x 0.02 kg			
	- - 1 [+	D													
		c													
DIMENSIONS (inches		—o— —— c		d	e	f	α	h	i	i	k	I	m	n	0
- N - - N - - N - - - N - -	a 18.4	c		d 8.75	e 8.25	f6.5	g 3.72	h 6.77	i 2.58	j 11.58	k 3.70	1	m 0.72	n 6.63	
→ Tu	а	c					-								0 6.6 10.1
PIMENSIONS (inches ase Size 8.75" x 8.75"	a 18.4	b 8.75	11.83	8.75	8.25	6.5	3.72	6.77	2.58	11.58	3.70	3.00	0.72	6.63	6.6 10.
→ ¹ / ₁ →	a 18.4 18.4	b 8.75 13.75	11.83 15.33	8.75 12.25	8.25 8.25	6.5 6.5	3.72 3.72	6.77 6.77	2.58 2.58	11.58 10.96	3.70 4.31	3.00 3.00	0.72 0.78	6.63 11.50	6.6 10. 18.
Image: product of the second secon	a 18.4 18.4 35.59	b 8.75 13.75 19.85	11.83 15.33 26.97	8.75 12.25 19.85	8.25 8.25 8.25	6.5 6.5 6.5	3.72 3.72 3.72	6.77 6.77 6.77	2.58 2.58 3.15	11.58 10.96 29.25	3.70 4.31 5.00	3.00 3.00 3.00	0.72 0.78 3.94	6.63 11.50 18.73	6.6 10. 18.
Image: Size 8.75" x 8.75" 12" x 14" 20" x 20" 24" x 24"	a 18.4 18.4 35.59	b 8.75 13.75 19.85	11.83 15.33 26.97	8.75 12.25 19.85	8.25 8.25 8.25	6.5 6.5 6.5	3.72 3.72 3.72	6.77 6.77 6.77	2.58 2.58 3.15	11.58 10.96 29.25	3.70 4.31 5.00	3.00 3.00 3.00	0.72 0.78 3.94	6.63 11.50 18.73	6.6
Image: Contract of the second seco	a 18.4 18.4 35.59 35.59	b 8.75 13.75 19.85 23.85	11.83 15.33 26.97 30.90	8.75 12.25 19.85 23.85	8.25 8.25 8.25 8.25	6.5 6.5 6.5	3.72 3.72 3.72 3.72 3.72	6.77 6.77 6.77 6.77	2.58 2.58 3.15 3.15	11.58 10.96 29.25 29.25	3.70 4.31 5.00 5.00	3.00 3.00 3.00 3.00	0.72 0.78 3.94 2.76	6.63 11.50 18.73 22.25	6.6 10. 18. 22.
Image: Constraint of the second se	a 18.4 18.4 35.59 35.59 a	b 8.75 13.75 19.85 23.85 b	11.83 15.33 26.97 30.90 c	8.75 12.25 19.85 23.85 d	8.25 8.25 8.25 8.25 e	6.5 6.5 6.5 f	3.72 3.72 3.72 3.72 3.72	6.77 6.77 6.77 6.77 h	2.58 2.58 3.15 3.15 i	11.58 10.96 29.25 29.25 j	3.70 4.31 5.00 5.00 k	3.00 3.00 3.00 3.00	0.72 0.78 3.94 2.76 m	6.63 11.50 18.73 22.25 n	6.6 10. 18. 22.
i i i i i <	a 18.4 18.4 35.59 35.59 a 468	b 8.75 13.75 19.85 23.85 b 208	11.83 15.33 26.97 30.90 c 301	8.75 12.25 19.85 23.85 d 223	8.25 8.25 8.25 8.25 e 210	6.5 6.5 6.5 f 165	3.72 3.72 3.72 3.72 3.72 9 95	6.77 6.77 6.77 6.77 h 172	2.58 2.58 3.15 3.15 i 66	11.58 10.96 29.25 29.25 j 294	3.70 4.31 5.00 5.00 k 94	3.00 3.00 3.00 3.00 I 76	0.72 0.78 3.94 2.76 m 20	6.63 11.50 18.73 22.25 n 168	6.6 10. 18. 22. c

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INPUT/OUTPUT

Remote Inputs	Three logic level inputs for Zero, Print, Tare, Units or F1							
Standard Outputs	Three set point outputs, open collector design							
Serial Ports	Two serial ports: - Comm 1 RS232 full duplex - Comm 2 RS232 full duplex Or - Comm 1 RS232 full duplex with handshaking - Comm 2 Not available Programmable serial response to ASCII input SMA protocol, broadcast, inquire							
USB Host	Printer input or USB flash memory							
Ethernet	Ethernet IP, FTP, Modbus TCP and DHCP							
Wireless	Optional internal 802.11b/g							
ELECTRICAL								
Power Requirements	<i>Line voltage</i> : 90-264 VAC (110-240 VAC nominal), frequency 50 or 60 Hz or 12 to 36 VDC <i>Power consumption</i> : estimated at 200 mA at 12 VDC for one weight sensor and 250 mA at 12 VDC for six weight sensors.							
Excitation	5 VDC, short circuit protected Supports up to six 350 ohm weight sensors 4 or 6 conductors with sense leads							
Analog Signal Input Range	-1 m/V/V to 5 mV/V							
Analog Signal Sensitivity	0.1 μV/V/divisions minimum 0.5 μV/V/divisions recommended							
Circuitry Protection	RFI, EMI and ESD protection							
OPTIONS								
PC Card (choose one)	USB device card: Provides USB interface to PC Wireless internal card: 802.11b/g wireless data communications, 200ft (60m) distance between receivers subject to working environments Current loop card: Current Loop and RS485/RS422							
Watertight Gland	Choose one: USB or Ethernet rubberized and sealed with 6" lead							
External Relay Box (column mounted)	IP69K easy to clean external relay box to be housed in the rear of column and to hold up to 3 OPTO22 relays for running trips alarms or external light stacks							
Light Stack (column mounted)	Light stack and stand for retrofitting to external relay box							
External Battery (column mounted)	External IP69K removable battery pack with dry area external recharger. 16 hours operation between charges (charge time 8 hours).							
Stand Kit	For wall mounting indicator							
APPROVALS								
Patent	US Patent 672,262							
Agencies *pending	NTEP (US) Class III/IIIL 5,000 d (CC#11-096, CC#88-104, CC#12-035, CC#03-067) OIML / EC Class III 3,000 d Measurement Canada (AM5841C, AM5846, S.WA3094) Australia (NMI S570, NMI6/4C/277) New Zealand (MCA 2100, MCA 2101) India South Africa* CE (European and UK) CUL North America / Canada Certified by NSF to NSF/ANSI Standard 3-A 14159-1 -2010 IP69K							

PLATINUM DISTRIBUTOR



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