



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

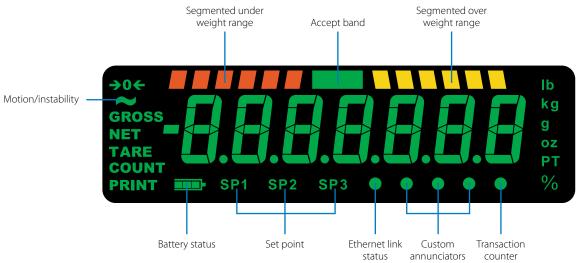
OPERATING APPLICATIONS Quick Check Application ± Target check mode with adjustable 6 segmented red under, orange over and large green accept bar. Gross/Net Checkweighing Application Gross/net checkweighing mode with adjustable segmented red under, orange over and green accept bar. Built in transaction counter. Pack run. Configurable standard deviation and Xbar R. Advanced Checkweighing Application 500 PLU storage, weight and percentage checkweighing settings with fully adjustable segmented

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.

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 linearisation
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
USER 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, lk 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



Status Annunciators

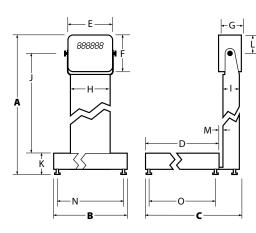


Avery Weigh-Tronix

PHYSICAL

Certified by NSF to NSF/ANSI Standard 3-A 14159-1 -2010, food-grade 304 brushed stainless steel enclosu (IP69K certified) with GORE [®] Vent ventilation and column-mounted to a range of stainless steel pickled and electropolished IP66 and IP69K bases.						
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						
10% to 90% relative, non-conden	10% to 90% relative, non-condensing					
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 loads.						
Torsion base: 500% Diamond base: 150%						
100%						
Torsion base BSG: IP65 (NEMA 4X) Torsion base BSF: IP69K Diamond base BS: IP69K						
Torsion Base BSF: 5000d NTEP (300	Od EC /OIML)					
Base size	Resolution (North America)	Resolution (Europe)				
8.75" x 8.75" (220mm x 220mm) 12" x 14" (310mm x 350mm)	6 x 0.002 lb (3 x 0.001kg) 12 x 0.005 lb (6 x 0.002 kg) 30 x 0.01 lb (15 x 0.005 kg) 60 x 0.02 lb (30 x 0.01 kg)	N/A 6 x 0.002 kg 15 x 0.005 kg 30 x 0.01 kg N/A				
	 (IP69K certified) with GORE® Ve and electropolished IP66 and IF 14° F to 104° F / -10° C to 40° C (A -4° F to 140° F / -20° C to 60° C (in 10% to 90% relative, non-conden Easy to clean, certified by NSF to NS construction with pickle and pol breakaway load transfer system t Torsion base: 500% Diamond base: 150% 100% Torsion base BSG: IP65 (NEMA 4X) Torsion base BSG: IP65 (NEMA 4X) Torsion base BSG: 3000d NTEP (300 Diamond base BSF: 5000d NTEP (300 Diamond Base BSF: 5000d NTEP (500 Diamond Base Size 8.75" x 8.75" (220mm x 220mm) 	 (IP69K certified) with GORE* Vent ventilation and column-mounts and electropolished IP66 and IP69K bases. 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 10% to 90% relative, non-condensing Easy to clean, certified by NSF to NSF/ANSI Standard 3-A, fully stainless s construction with pickle and polish weigh pan and column suitable: breakaway load transfer system to help fully protect the loadcells fro Torsion base: 500% Diamond base: 150% 100% Torsion base BSG: IP65 (NEMA 4X) Torsion base BSG: 3000d NTEP (3000d EC /OIML) Torsion Base BSG: 3000d NTEP (3000d EC /OIML) Diamond base BS: 5000d NTEP (3000d EC /OIML) Diamond Base BS: 5000d NTEP (3000d EC /OIML) Base size Resolution (North America) 8.75" x 8.75" (220mm x 220mm) 6 x 0.002 lb (3 x 0.001kg) 12 x 14" (310mm x 350mm) 30 x 0.01 lb (15 x 0.005 kg) 				

		100 x 0.05 lb (50 x 0.02 kg)	N/A
IP69K BSF Torsion base	8.75" x 8.75" (220mm x 2	220mm) 5 x 0.001 lb (2.5 x 0.0005 kg) 10 x 0.002 lb (5 x 0.001 kg)	3 x 0.001 kg 6 x 0.002 kg
	12" x 14" (310mm x 3	350mm) 25 x 0.005 lb (12.5 x 0.002 kg) 50 x 0.01 lb (25 x 0.005 kg) 100 x 0.02 lb (50 x 0.01 kg)	15 x 0.05 kg 30 x 0.01 kg 60 x 0.02 kg
IP69K BS Diamond base	20" x 20" (510mm x 5	510mm) 100 x 0.02 lb (50 x 0.01 kg) 200 x 0.05 lb (100 x 0.02 kg)	45 x 0.01 kg N/A
	24" x 24" (610 mm x	610mm) 200 x 0.05 lb (100 x 0.02 kg) 500 x 0.1 lb (220 x 0.05 kg)	90 x 0.02 kg 200 x 0.05 kg



DIMENSIONS (inches)

а	b	С	d	е	f	g	h	i	j	k	Ι	m	n	0
18.4	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	6.67
18.4	13.75	15.33	12.25	8.25	6.5	3.72	6.77	2.58	10.96	4.31	3.00	0.78	11.50	10.00
35.59	19.85	26.97	19.85	8.25	6.5	3.72	6.77	3.15	29.25	4.31	3.00	3.94	18.73	18.75
35.59	23.85	30.90	23.85	8.25	6.5	3.72	6.77	3.15	29.25	4.31	3.00	2.76	22.25	22.50
а	b	С	d	е	f	g	h	i	j	k	Ι	m	n	0
468	208	301	223	210	165	95	172	66	294	94	76	20	168	170
468	349	389	311	210	165	95	172	66	279	110	76	20	292	254
904	504	685	504	210	165	95	172	80	743	110	76	100	476	476
904	606	785	606	210	165	95	172	80	743	110	76	70	572	572
	18.4 18.4 35.59 35.59 a 468 468 904	18.4 8.75 18.4 13.75 35.59 19.85 35.59 23.85 4 208 468 208 468 349 904 504	18.4 8.75 11.83 18.4 13.75 15.33 35.59 19.85 26.97 35.59 23.85 30.90 35.4 20.85 30.90 468 208 301 468 349 389 904 504 685	18.4 8.75 11.83 8.75 18.4 13.75 15.33 12.25 35.59 19.85 26.97 19.85 35.59 23.85 30.90 23.85 35.7 23.85 30.90 23.85 4.68 20.8 301 22.3 468 349 389 311 904 504 685 504	18.4 8.75 11.83 8.75 8.25 18.4 13.75 15.33 12.25 8.25 35.59 19.85 26.97 19.85 8.25 35.59 23.85 30.90 23.85 8.25 35.59 23.85 30.90 23.85 8.25 4.68 208 301 223 210 468 349 389 311 210 904 504 685 504 210	18.48.7511.838.758.256.518.413.7515.3312.258.256.535.5919.8526.9719.858.256.535.5923.8530.9023.858.256.5468bcdef468208301223210165468349389311210165904504685504210165	18.4 8.75 11.83 8.75 8.25 6.5 3.72 18.4 13.75 15.33 12.25 8.25 6.5 3.72 35.59 19.85 26.97 19.85 8.25 6.5 3.72 35.59 23.85 30.90 23.85 8.25 6.5 3.72 a b c d e f g 468 208 301 223 210 165 95 468 349 389 311 210 165 95 904 504 685 504 210 165 95	18.4 8.75 11.83 8.75 8.25 6.5 3.72 6.77 18.4 13.75 15.33 12.25 8.25 6.5 3.72 6.77 35.59 19.85 26.97 19.85 8.25 6.5 3.72 6.77 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 35.70 23.85 30.90 23.85 8.25 6.5 3.72 6.77 468 208 301 223 210 165 95 172 468 349 389 311 210 165 95 172 904 504 685 504 210 165 95 172	18.4 8.75 11.83 8.75 8.25 6.5 3.72 6.77 2.58 18.4 13.75 15.33 12.25 8.25 6.5 3.72 6.77 2.58 35.59 19.85 26.97 19.85 8.25 6.5 3.72 6.77 3.15 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 468 208 301 22.3 70 6.5 3.72 6.77 3.15 468 208 301 22.3 210 165 95 172 66 904 504 685 504 210 165 95 172 80	18.4 8.75 11.83 8.75 8.25 6.5 3.72 6.77 2.58 11.58 18.4 13.75 15.33 12.25 8.25 6.5 3.72 6.77 2.58 10.96 35.59 19.85 26.97 19.85 8.25 6.5 3.72 6.77 3.15 29.25 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 468 208 301 223 210 165 95 172 66 294 468 349 389 311 210 165 95 172 66 279 904 504 685 504 210 165 95 172 80 743	18.4 8.75 11.83 8.75 8.25 6.5 3.72 6.77 2.58 11.58 3.70 18.4 13.75 15.33 12.25 8.25 6.5 3.72 6.77 2.58 10.96 4.31 35.59 19.85 26.97 19.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 4.68 20.8 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 4.68 20.8 301 22.3 8.25 6.5 3.72 6.77 3.15 29.25 4.31 4.68 30.9 2 2 10 165 95 172 6.6	18.4 8.75 11.83 8.75 8.25 6.5 3.72 6.77 2.58 11.58 3.70 3.00 18.4 13.75 15.33 12.25 8.25 6.5 3.72 6.77 2.58 10.96 4.31 3.00 35.59 19.85 26.97 19.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 3.00 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 3.00 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 3.00 35.59 23.85 30.90 23.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 3.00 4 4 3.09 23.85 8.25 6.5 3.72 6.77 3.15 29.25 4.31 3.00 4 6	18.48.7511.838.758.256.53.726.772.5811.583.703.000.7218.413.7515.3312.258.256.53.726.772.5810.964.313.000.7835.5919.8526.9719.858.256.53.726.773.1529.254.313.003.9435.5923.8530.9023.858.256.53.726.773.1529.254.313.002.76abcdefghijklm4682083012232101659517266294947620468349389311210165951728074311076100904504685504210165951728074311076100	18.48.7511.838.758.256.53.726.772.5811.583.703.000.726.6318.413.7515.3312.258.256.53.726.772.5810.964.313.000.7811.5035.5919.8526.9719.858.256.53.726.773.1529.254.313.003.9418.7335.5923.8530.9023.858.256.53.726.773.1529.254.313.002.7622.25abcdefghiijklmn46820830122321016595172662791107620292904504685504210165951728074311076100476

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 LECTRICAL	Optional internal 802.11b/g					
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 OPTIONS	RFI, EMI and ESD protection					
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					
PPROVALS						
Agencies	NTEP (US) Class III/IIIL 5,000 d Indicator (CC# 11-096) BSF base (CC# 03-067) BS base (CC# 88-104) BSG base 3000d (CC# 12-035) OIML / EC Class III 3,000 d (R76/2006-GB1-12.05) (UK 2924) AM (Measurement Canada) Indicator (AM-5841C) BSF base (Pending) BS base (S.WA-3094) BSG base 3000d (AM-5557) CE (European and UK) cUL North America / Canada Certified by NSF to NSF/ANSI Standard 3-A 14159-1 -2010 IP69K					
	Measurement AM-5841C Measureme					

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