

ZM223

Avery Weigh-Tronix

Specifications

This high-performance, multi-functional indicator gives you the required flexibility to suit most industrial applications. It is suitable for office areas, industrial facilities, food production, and indoor/outdoor environments, as well as dusty, wet, or heavy washdown environments. The ZM223 provides an easy way to analyze, store, display and transmit data across a wide range of technology methods and comes standard with a wide range of configurable/programmable software applications to meet your needs.

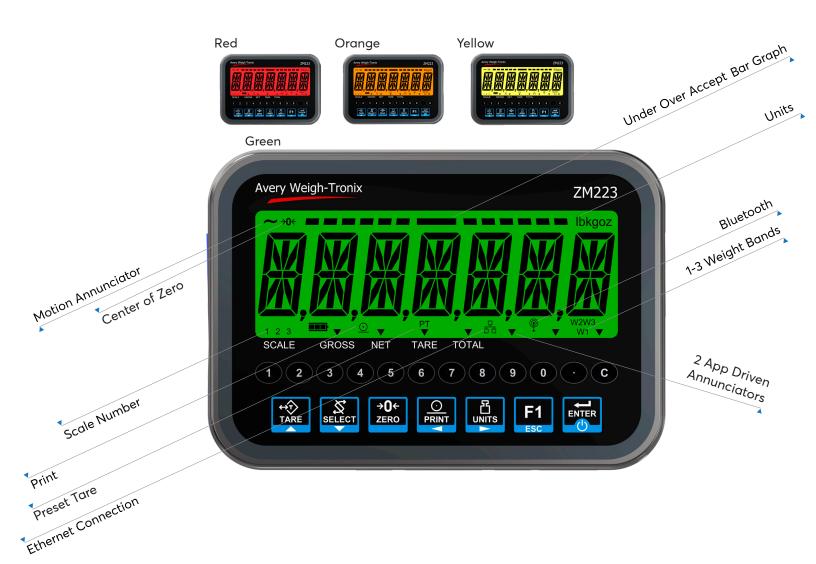
General

Operating Applications	Configurable & programmable apps stored on a micro-SD card: General Weighing, Accumulation, Counting, Check-Count, Checkweighing, % Weight Gain, Grading, Filling, Batching, Animal Hold, Peak Hold, Remote Display, Truck In-Out (See App functionality for more info)		
Remote Assist™ Mobile App	Compatible with Avery Weigh-Tronix Remote Assist™ Mobile App. Provides an easy method to quickly enter valuable alphanumeric data into the indicator which can be used for printing or for viewing weight data from a distance through to fast line setup and other data retrieval.		
Unit of Measure	Up to three configurable: lb, lb/oz, oz, kg, g, one custom		
Capacity Selections	9,999,999 with decimal located zero to five places. Display supports up to six decimal places, if software supports that many.		
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 AM/PM or 24-hour format)		
Calibration	Two to ten points stored		
Analog to Digital Measurement Rate	Rate 80Hz		
Internal Resolution Analog	53,687,100 counts per mV/V per second		
Internal Resolution Digital	One billion internal counts per second when linked to the BSQ Digital Base		
Digital Filtering Harmonizer	Harmonizer filtering with configurable constant, average and threshold		
Self-Diagnostics	Display, keys, inputs, outputs, serial port, Scale A to D, USB port and option cards		
Dynamic Weighing	Minimum nominal weigh time 100 milliseconds, recommended		

minimum 300 milliseconds

User Interface

Keypad	19 robust, flat, easy-to-clean keys & chemical resistant keypad with audio beep feedback		
Operational Keys Tare, Select, Zero, Print, Units, F1, Enter, 0-9, Decimal, Clear			
RPN Function	n Provides a secondary function for each key via configuration. Configurable Keys: Select, Print, Units F1, and Enter		
Status Annunciators	Center of Zero, Motion, Gross, Net, Tare, Preset Tare, Print, Battery Status, Scale Numbers 1, 2, Over/ Under/Accept Bar Graph, Bluetooth, Ethernet Connection, Weight Bands 1,2,3, lb, kg, g, three Custom Annunciators		
Display	Sunlight readable transflective HTN display, seven fourteen-segment, 1.5" (38 mm) high alphanumeric characters, illuminated with color changing backlight (Green, Red, Orange & Yello		
Display Rate Selectable	(1, 2, 5, 10) times per second		



Electrical

Power Requirements	Line voltage: 90-264 VAC (110-240 VAC nominal), frequency 50 or 60Hz, 12 to 24VDC Power consumption: estimated at 200mA at 12VDC for one 350-ohm weight sensor and 250mA at 12VDC for eight 350-ohm weight sensors	Excitation	5VDC, short circuit protected. Supports up to eight 350-ohm weight sensors Four or six conductors with sense leads Detachable plug connectors
Max Current	0.5A or 1A using an external 12VDC power	Analog Signal Input Range	-1 m/V/V to 5 mV/V
Weight Ranges	Single range: up to 10,000d Legal-for- Trade Multi range (MR): 2 to 3 ranges Multi interval (MI): 2 to 3 ranges	Analog Signal Sensitivity Analog Signal Protection	0.1 µV/V/divisions minimum 0.5 µV/V/divisions recommended RFI, EMI and ESD protection
Number of Bases	Up to two bases: one analog base & one BSQ Digital Bench Base or two BSQ Digital Bench Bases	FIOLECTION	

Physical Housing

Enclosures

Stainless steel: 304 brushed stainless steel (IP69K certified) with water and dust resistant, breathable, vented gland and tilt stand with provisions for desk, wall and column mounting

Shipping Weight & Dimensions

8.4 lb (3 kg) 14" x 12" x 6.5" (356 mm x 305 mm x 165 mm)

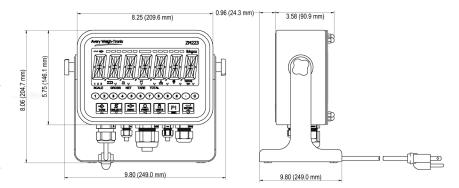
Operating Temperature

14° F to 104° F / -10° C to 40° C (Compliance with legal-for-trade requirements)

-4° F to 140° F / -20° C to 60° C (industrial)

10 to 90% humidity noncondensing

Dimensions



Approvals

Agencies Single-interval, multi-range or multi-interval:

NTEP 10,000d (24-075), Measurement Canada 10,000d (AM-6261C), EU 10,000d (0200-NAWI-19072), OIML R76 10,000d (pending), India 10,000d (I-21/177/2025-W&M), CE, NOM, IFT (pending), NSF, UL/C-UL, IP69K

Input-outputs/Data Storage

Remote Inputs	Up to six logic level inputs for Zero, Print, Tare, Units, F1, and more Configurable apps: Mostly use three inputs Programmable apps: Can be programmed to be either inputs or outputs up to a max of six	Micro-SD Slot	Compatible with micro-SD cards up to 32GB, read individual files up to 4GB Supplied with 16GB micro-SD cards as standard
Standard Outputs	Up to six outputs Configurable apps: Mostly use three inputs, three outputs Programmable apps: Can be programmed to inputs or outputs	Micro-SD Card Usage	Micro-SD card also holds all our configurable Avery Weigh-Tronix apps that can be selected to run based on each customers needs Scale profile backup PLU database storage backup
Serial Ports	Two serial Comm ports: internally wired Comm 1 RS232 full duplex Comm 2 RS232 full duplex Both RS232 comm ports can		 Alibi memory data storage backup area ZM223 app library retrieval area Transaction data storage
	also be used to drive a BSQ high-precision digital bench base Utilize via all standard protocols: SMA, Broadcast, ENQ, NCI, etc. Fully	Programming Language	Lua programmable and fully configurable. Comes standard with a library of applications stored on the internal micro-SD card.
USB Host	programmable via LUA. Internal USB A connection for USB	Data Drive Storage	Configurable (flash memory, USB storage memory, micro-SD card, or external to a PC or cloud server)
	Printer, USB Memory, USB Scanner, USB Keyboard, and optional external washdown USB connector	Alibi/Archiving Memory	100,000 transactions
Bluetooth®	BLE used to connect to Remote Assist™ Mobile IOS, Android, Windows App	Optional	 Holds one of the following option cards Analog output card STVS extreme lightning surge protection ideal for use with outdoor platforms or weighbridges Can be fitted with one of the external glands USB A watertight gland Ethernet watertight gland
Ethernet	The Ethernet port can be configured to support multiple independent devices, it supports DHCP, Client/Server TCP Socket Connections, and UPD Fieldbus: Enet/IP & Modbus TCP Cloud Server Connection: HTTPS & MQTT. Ideal for connecting to customers cloud data base servers		



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Avery Weigh-Tronix

www.averyweigh-tronix.com

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