

ZM223

Avery Weigh-Tronix

FAQ Sheet

What is the ZM223 Indicator replacing?

The ZM223 will be replacing the aluminum and stainless steel desktop versions of the ZM301 and ZM303 Indicators as well as the ZQ375 Checkweigher.

02 Is there a panel mount version of the ZM223?

No, the ZM223 will only be available as a desktop version. The old ZM panel mount versions will remain within our range for now.

Will the new ZM223 also cover the same checkweighing applications, as used in the current ZQ375?

Yes, all of the ZQ375 applications have been modified to work in the ZM223 and its keys. We have also integrated its color-changing backlight to work with the bar graph.

Does the new ZM223 use the same password & navigational menus as used in the current ZM indicators?

Yes, the new ZM223 has been purposely designed to use the same password and navigational steps as used in our current ZM3/4 range. Any technician who is already familiar with the current ZM3/4 menus can already navigate the core areas of the new ZM223 with little to no extra training.

O5 Does the ZM223 have password protection?

The new ZM223 removes the displayed password from being viewed on the screen when entered by a service technician. This stops inquisitive operators gaining access to sensitive areas once the technician leaves.

06 Is the new ZM223 Lua programmable?

Yes, the ZM223 is fully programmable and comes with a suite of applications that can be customized to meet your customers' requirements using Lua. All apps are stored on a micro-SD card that ships with the ZM223.

107 How much memory does the ZM223 have?

The ZM223 will ship with a 16GB micro-SD card to provide data storage for approximately 100,000 transactions & up to 2000 PLU's.

Can any micro-SD card be used inside the ZM223?

The ZM223 includes a 16GB micro-SD card as a standard feature. Currently, it supports micro-SD cards ranging from 4GB to 32GB and can read individual files up to 4GB in size.

O9 Can the ZM223 still fit on the same columns & stand fittings that are supplied with the current ZM202, ZM301, ZM303 and ZQ375 Indicators?

Yes, even though the indicator housing is smaller in size we have kept the indicator width the same so it can still fit directly into the current ZM stands or columns.

1 How many load cells can be used with the ZM223?

The ZM223 can run one analog base with up to eight 350-ohm load cells. This is ideal for large platforms or weighbridges that are positioned close to the indicator.

What is the load cell excitation voltage supplied by the ZM223?

The ZM223 provides 5V excitation and is well-suited for a variety of installations, including simple weighbridge application.

What is the maximum distance the ZM223 an be from an Avery Weigh-Tronix truck scale weighbridge?

The ZM223 has been fully tested to work with our current Avery Weigh-Tronix eight cell truck scale and work adequately from 100 feet away from the weighbridge.

Can the ZM223 power and run the ZB210 Digital Junction Box or the ZT Digital Load Cells?

No, the ZM223 is not programmed to support the ZB210 Digital Junction Box or the ZT Digital Load Cells.

Does the ZM223 have lightning surge suppression built into it?

The ZM223 is a general usage indicator that can be upgraded with a newly designed STVS option card to protect the indicator's electronics, including comms lines, from voltage spikes common in outdoor installations.

15 Is the ZM223 compatible with the high-accuracy BSQ digital base?

Yes, the affordable ZM223 can now be linked up to our high precision BSQ bench bases providing an affordable high accuracy weight solution. When linked to a BSQ base this will occupy one RS232 comm port to run this digital base.

How many bases can the ZM223 run?

The ZM223 has been designed to run up to two bases: one analog base & one BSQ Digital Bench Base or two BSQ Digital Bench Bases.

17 What option cards can be used with the ZM223?

The ZM223 can support the new analog output card that attaches to the inside of the indicator's rear plate or a new STVS option card that can be fitted to help protect the indicator electronics from large voltage spikes.

Why does the ZM223 have fewer keys than what is offered on the ZM303?

We have reduced the number of keys to lower costs and create a compact enclosure that fits in more locations. Despite having fewer keys, we maintain full functionality by strategically assigning primary and secondary functions to each key. Explore our expanded and new RPN functions below.

10 What is an RPN function & how can it be used?

RPN (Reverse Polish Notation) provides a configurable secondary key function ideal for entering in key data like: ID Numbers, Piece Weights, PLU Numbers, Target Values, Output Values, Print Format Numbers.

To assist with these new RPN functions, each indicator comes with a set of key labels that can be attached to the overlay to help guide the operator to which key can be used with what secondary RPN functions.

How do you change bases on the ZM223 when the indicator keypad has no dedicated base switching key?

Base switching is carried out using an RPN base switching key function. Enter in the required base number one or two and then press the required RPN key to switch base.

Example:

Setup the Select Key's RPN function to be "Scale" Press 2 then Select Key to select Scale 2.

What types of communication are available on the ZM223?

The ZM223 comes standard with: two RS232, one Ethernet, one USB host & one Bluetooth® connection.

22 What can I use the Bluetooth for?

The new Bluetooth connection will allow you to connect the ZM223 to our new free Bluetooth phone/tablet app (Android, Windows and IOS).

What are UDF fields used for and how can I see them?

A UDF is a User Defined Field. These fields can be any piece of data the user wants to see. Whether they are application values, scale values, or custom user fields. Examples could be but not limited to: Address, Part Number, Time/Date, Summed Weight Data, and the list goes on. This data can be accessed via the Mobile App, PLC, Printing, Web Page and more.

Can we connect the ZM223 to a PLC?

Yes, the ZM223 can be quickly linked up to a PLC using its built in Enet/IP, and Modbus TCP connections. New default PLC configuration helps speed up setup.

7 Can the ZM223 talk to the cloud or web servers?

The ZM223 now uses the very latest chip sets to provide all the security needed to allow the ZM223 to link directly to a customer's cloud-based server without needing expensive secondary PCs to make this connection. By using Restful API, this allows data to be sent & received directly to the cloud.

26 What do I get with the ZM223 web browser page?

The ZM223 has built-in web browser pages that allow an operator to see and control the indicator remotely from anywhere, just by being able to connect to the network the ZM223 is on.

This web browser also allows the operator to see additional text prompts and UDF data, allowing an operator to be walked through a process.

Using the web browser page also removes the need to have a primary and secondary set up, saving time and money.

77 What can I see when using the web browser page?

The web page will provide an image of what the indicator looks like. All keys will function from the PC's own keyboard. Alongside this, there will be an operator prompt area and a list of all the UDF fields that are active within the ZM223.



How many inputs & outputs can I drive with the ZM223?

The ZM223 has six programmable I/O that can be either an input or an output. Allowing the indicator to run filling applications with two ingredients both with two speed filling or it can run a six color light stack directly from the indicator, ideal for grading applications.

29 Can I power a 24V stack light or relays directly from the ZM223?

Yes, the ZM223 is fitted with an internal AC/DC power supply which allows power to be taken directly from inside the indicator.

What other power options are available for the ZM223?

The ZM223 can be converted to run off of an external 12-30VDC power source. Additionally, the ZM223 can be powered by a 24V battery or the ZQ-BAT.

31 Is the ZM223 NSF approved?

Yes, the ZM223 has been NSF approved to be used in food preparation areas.

How many backlight colors does the ZM223 have?

The ZM223 has four configurable backlight colors (Green, Red, Orange & Yellow) that aid the functionality of the indicator app being used. In checkweighing, the backlight colors give the operator clear visuals when the weight is within the Under (red), Over (orange) and Accept (green) conditions. In batching, the backlight is used differently to show when the process is running (Green) or paused (red). In each app, the operator can change the color order via the user or supervisor menus. Subject to the indicator app being used.

33 What type of display does this new indicator have?

The ZM223 uses a new HTN LCD display with 1.5" (38 mm) high digits that are easily viewable from either side of the display with little to no ghosting and can be read in a variety of lighting conditions, including direct sunlight.



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