Avery Weigh-Tronix

ZM303

303

ZM301

301

ZM303

303

ZM
300 SERIES

Indicators to measure and control your daily operations.

Built for today's needs and tomorrow's challenges

Leading Edge Indicators

Avery Weigh-Tronix

The Avery Weigh-Tronix ZM300 Series indicators are everyday indicators for common industrial weighing applications. These high performance, multi-function indicators will analyse, store, display and transmit data, providing you with greater visibility of weighing performance. Highly adaptable and available with a choice of display technologies and enclosures, the ZM301 and ZM303 give you the flexibility required to suit different applications and meet your business needs.

ZM301

The ZM301 is a simple-to-operate basic weight-reading indicator. It captures values at an astounding rate of 80 times per second for fast weighments. The ZM301 features six operational keys, including Zero, Print, Units, Tare, Select and F1.

Built-in operational routines, or applications, can be configured at the time of installation, tailored to your specific solution.

ZM303

The addition of the numeric keypad allows ZM303 users to store multiple Tares and numeric IDs in the internal memory for easy retrieval and for simple entry of numeric values when the counting application is active. Keys for counting, checkweighing and process control operations are also standard on the ZM303.

The ZM303 offers display and enclosure options for indoor and outdoor applications.

ZM301

ZM303

ZM303

Avery Weigh-Tronix

4780 kg

GROSS

TARE SELECT

PRINT UNITS

ZERO SAMPLE

1 2 3
4 5 6
7 8 9
C 0 .

START STOP

ID F1

SETUP TARGET

ETHERNET   **USB**   **SERIAL**

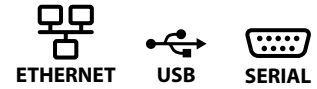## Enclosures to suit your requirements

The ZM301 and ZM303 are available in a protective aluminium enclosure for office environments, a robust IP69K certified stainless steel enclosure for harsh indoor or outdoor use, or a stainless steel panel mount design for control room applications.

This range of enclosures enables the user-friendly

indicators to adapt to multiple situations, ensuring simple operation and familiarity for operatives who are required to relocate to different work stations.

In addition to quick, easy and functional models suitable for use in all environments, the 304 brushed stainless steel models also include a swivel stand for adjustable viewing angles and provision for mounting onto a wall, desk, or column.

Tabletop Aluminium Enclosure

Stainless Steel Enclosure **IP69K**

Stainless Panel Mount Enclosure

Highly visible display options

The ZM301 and ZM303 indicators feature the latest technological advancement for highly visible displays. The high contrast, nine segment IBN display technology provides an innovative solution for all applications, from low and dim lighting conditions to reflected light such as direct sunlight, ensuring good visibility whatever the circumstances. The excellent colour contrast and enhanced viewing angles offered by IBN technology draw the eye to the important information displayed on screen, reducing operator error and improving productivity.

For lower operator fatigue in direct sunlight conditions, the ZM303 is available with a TN LCD display. This technology features dark digits against a lighter background and a green backlight that is easy on the eye, making it suitable for use both in direct sunlight and during the evening or winter months when the light starts to dim.

IBN Display
Ideal for indoor use

TN Display
Ideal for outdoor use (ZM303 only)

ZM300 Series model variants

ZM301

ETHERNET   **USB**   **SERIAL**

Aluminium Enclosure IBN Display

Stainless Steel Enclosure IBN Display
IP69K

Stainless Panel Mount IBN Display

ZM303

Aluminium Enclosure IBN Display

Aluminium Enclosure TN Display

Stainless Steel Enclosure IBN Display
IP69K

Stainless Steel Enclosure TN Display
IP69K

Stainless Panel Mount IBN Display

IP69K GORE® Vent

In food applications, indicators may be subject to rapid temperature change, whether due to operating conditions or wash down procedures. Extremes of temperature inside and outside the enclosure can result in expansion and contraction of gases, which in turn can lead to moisture and humidity becoming trapped inside. To avoid this issue, the Avery Weigh-Tronix IP69K certified indicators are fitted with GORE® Vent technology; a membrane which allows the indicator to breathe without compromising the IP69K enclosure. This industrial food grade technology guarantees no down time due to water ingress.

Avery Weigh-Tronix

Multi connectivity

The ZM301 and ZM303 offer multi-connectivity, ensuring compatibility and communication between old and new peripheral technologies. An Ethernet port is included as standard, supporting fast and efficient data transfer both locally or across the globe via an IP network, while two RS232 serial interface ports provide for data transfer to older equipment.
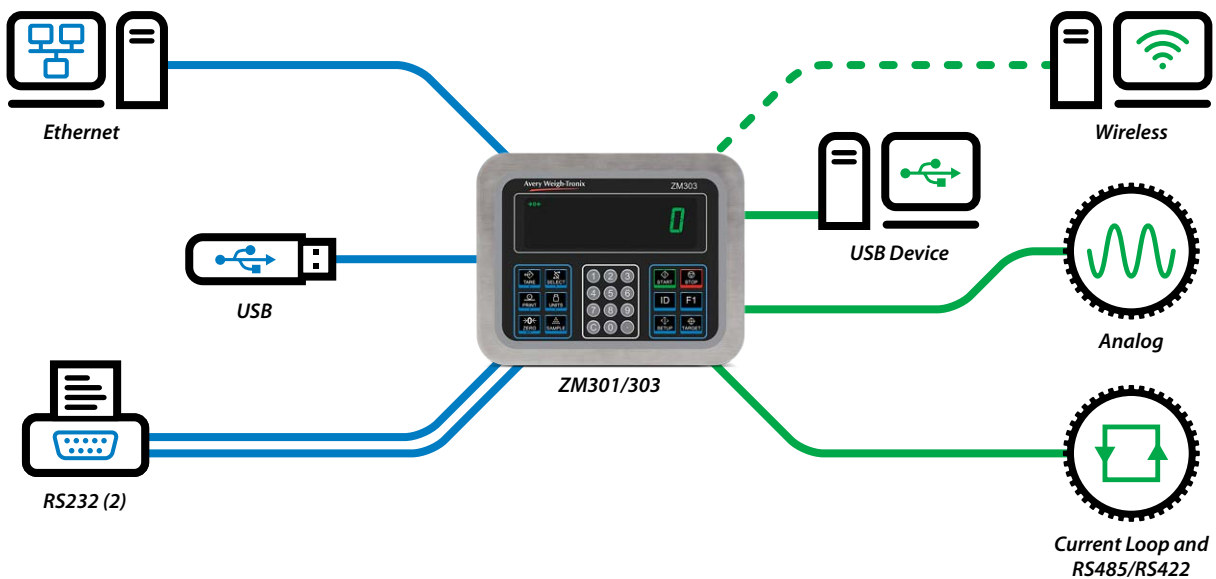
A USB host port facilitates communication with printer hardware, as well as offering the option of using a USB storage device to transfer data to a back office PC for integration and management.

Analog output, USB device, Current Loop, RS485/RS422 and Wireless options are also available, enabling you to utilise the same user-friendly interface for numerous applications with a range of connectivity options to suit your business requirements.

Remote push buttons or foot controls can be attached to both the ZM301 and ZM303 indicators, improving productivity by enabling operators to activate the indicator remotely in order to perform Zero, Print, Tare, Units, or F1 functions.

STANDARD CONNECTIVITY **OPTIONAL CONNECTIVITY**

Ethernet

USB

RS232 (2)

ZM301/303

USB Device

Wireless

Analog

Current Loop and RS485/RS422

Consistency and compatibility

By adopting a building-block approach, the ZM301 and ZM303 are consistent across the range of Z-series indicators and checkweighers. This standardisation simplifies usability for operatives and maintenance teams alike, with similar parts and functions designed to increase familiarity and reduce the need for additional training.

The design registration for the ZM300 series of products is US patent pending.

Global agency approvals

The ZM series is approved for use worldwide, by the following recognised agencies:

Pending: Australia, South Africa, New Zealand, India

NTEP

Measurement Canada Approved
AM-5841C

OIML

IP69K CE c UL us LISTED

Applications

General Weighing
Weighments, including the number of transactions, can be accumulated, stored and recalled.

Checkweighing
Display includes a multi-segment graph for fast evaluation, allowing operators to instantly verify whether products are within target ranges.

Counting Routines
The ZM303 can be utilized with floor scales or bench scales to establish the quantity of pieces being placed into a box or the quantity already in the box for inventory management.

Peak Weight
If a maximum weight reading is required, the ZM301 and ZM303 can capture and display the peak measurement of stable weights.

Process Control
The multi-segmented graph can be used as a filling status annunciator and is equipped with three setpoint controls to interface with relays for automated mixing or blending operation.

Remote Display
The ZM303 and ZM301 can both be used as a remote display, enabling easy and convenient viewing of weight information where you need it.

Panel Mount
The optional panel mount enclosure allows both the ZM301 and ZM303 to be installed in a larger panel with other automation instrumentation. With IP66 ingress protection, the panel mount enclosure provides protection against dusty or wet environments.

High Pressure and Heavy Washdown Environments
The ZM301 and ZM303 indicators are available in a rugged, durable 304 brushed stainless steel enclosure. The laboratory certified IP69K enclosure is completely resistant to dust and water ingress and identifies this product as being ideal for use in high pressure and heavy washdown applications.

The durable construction used for the ZM keypads offers strength, durability and chemical resistance, with metal domed tactile feedback to enhance usability.

Multi-segment display for checkweighing and process control applications

Counting application

High-pressure washdown

Options

Analog Output Card
0-10 VDC and 4-20 mA.

Current Loop Card
Current Loop/RS485/RS422.

USB Device Card
Provides USB interface to PC.

Wireless Internal Card
802.11b/g Wireless

Watertight Gland – USB

Watertight Gland - Ethernet

External Battery Pack
Attachable external battery pack with toggle on/off. Uses four D batteries providing 12 hours operation on a single weight sensor system and 11 hours on a four weight sensor system.

Tabletop Stand Kit
For aluminium enclosure models.

More online

www.averyweigh-tronix.com/zm300

› Technical specifications
› User manuals
› Breaking information

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