

30

2 A 2 A A A

•

USB

SERIAL

ZM303 IP69K Stainless Steel Enclosure TN Display

> ZM303 Panel Mount Enclosure IBN Display

analyse, store, display and transmit data across a range of applications.

Q. 0

:0E

000

> ZM301 Aluminium Enclosure IBN Display

DESCRIPTION

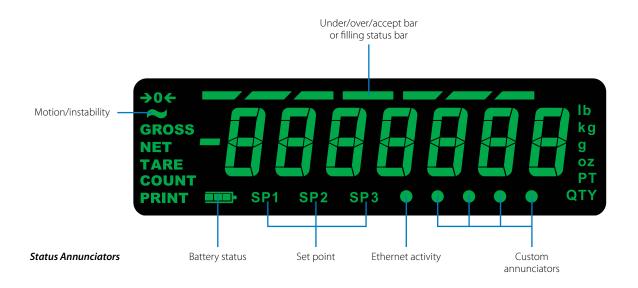
Highly adaptable and available with a choice of display technologies and enclosures, these high performance, multi-function indicators give you the flexibility required to suit different applications. Suitable for the office and high pressure and heavy washdown environments, the ZM300 series will

SPECIFICATIONS

GENERAL		
Operating Applications	General weighing, accumulation, check weighing, counting, peak measurement, batching and remote display	
Unit of Measure	Six, configurable (Pounds, Kilograms, Ounce, Gram, Pound/Ounce, Custom)	
Capacity Selections	9,999,999 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 hr 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	Harmoniser filtering with adaptable constant and threshold	
Self Diagnostics	Display, keys, inputs, outputs, serial port	

USER INTERFACE

Keypad	<i>ZM301:</i> 6 key chemical resistant keypad with metal domed tactile feedback <i>ZM303:</i> 24 key chemical resistant keypad with metal domed tactile feedback
Operational Keys	ZM301: Zero, Print, Units, Tare, Select, F1 ZM303: Zero, Print, Units, Tare, Select, Sample, Target, ID, Start, Stop, 0-9, Decimal, Clear, F1, Setup
Status Annunciators	Center of Zero, Motion, Gross, Net, Tare, Count, Print, Battery status, Set point 1,2,3, Over/Under/Accept bar graph or fill bar graph, LB, KG, Gram, Oz, Preset Tare, Quantity, (Custom unit of measure – Ton, Tory Ounce, Tonne, Feet/Meters, etc), Active Ethernet connection.
Display	 IBN illuminated: 7 digit, nine segment display, green on black background for indoor use TN backlit (ZM303 only): 7 digit nine segment display, black on green background ideal for outdoor/indoor use 0.8" (20 mm) high digits Annunciators for status and mode identification Sortbar/Checkweigher segments
Display Rate	Selectable (1, 2, 5, 10, 20) times per second







IBN display – Ideal for indoor use

TN display - Ideal for outdoor/indoor use (ZM303 only)



ZM301 keypad - 6 keys



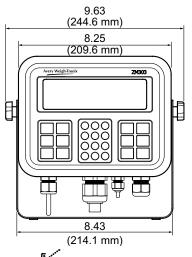
ZM303 keypad - 24 keys

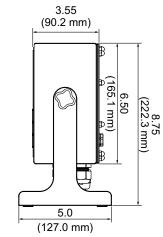
Avery Weigh-Tronix

PHYSICAL

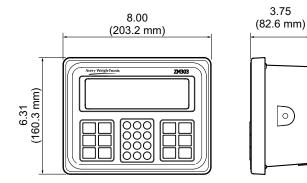
Enclosures	Stainless steel: 304 brushed stainless steel (IP69K certified) with GORE® Vent ventilation and tilt stand with provisions for desk, wall and column mounting Aluminium: Aluminium black powder painted IP20 with rubber feet Panel mount: Stainless steel panel mount IP66
Operating Temperature	Compliance with legal for trade requirements -4° F to 140° F / -20° C to 60° C (industrial) 10 to 90% humidity
Shipping Weight	Stainless steel: 8.09 lb (4.05 kg) Aluminium: 4.75 lb (2.37 kg) Panel mount: 6.53 lb (3.27 kg)
Dimensions (L X W X H)	Stainless steel: 9.6" x 5" x 8.8" (243 mm x 127 mm x 223 mm) Aluminium: 8" x 3.2" x 6.3" (203 mm x 81 mm x 160 mm)

Panel mount: 8.7" x 3.4" x 6.9" (221 mm x 86 mm x 175 mm)

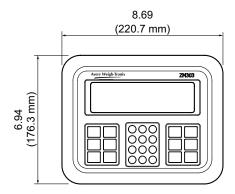


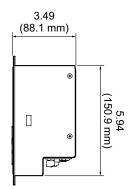


Stainless Steel



Aluminium





 \bigcirc

Panel Mount

ZM300 SERIES Technical Specification

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, enquire
USB Host	Printer
	Connect USB flash memory
Ethernet	The Ethernet port can be configured to support five independent devices, it supports DHCP client/server and Ethernet sockets plus it supports all the serial protocols
Fieldbus	Ethernet IP and Modbus TCP
Optional	Analogue output Current Loop/RS485/RS422 USB Device Internal Wireless 802.11b/g
LECTRICAL	
Power Requirements	<i>Line voltage:</i> 90-264 VAC (110-240 VAC nominal), frequency 50 or 60 Hz, 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 Detachable plug connectors
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)	Analogue output card: 0-5 VDC, 0-10 VDC and 4-20 mA Current Loop Card: Current Loop and RS485/RS422 USB device card: Provides USB interface to PC Wireless internal card: 802.11b/g wireless data communications kit with antenna
External Battery Pack	Attachable external battery pack with 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
ZM-OPTO	Provides setpoint interface
USB Watertight Gland	Rubberised and sealed with 6" lead
Ethernet Watertight Gland	Rubberised and sealed with 6" lead
Stand Kit	For aluminium enclosure models
PPROVALS	
Patent	US Patent 672,262
Agencies	NTEP (US) Class III/IIIL 10,000 d (CC# 11-096) OIML (European and UK) Class III 6,000 d (R76/2006-GB1-12.04) Measurement Canada (AM-5841C) Australia (NMI 5570) MID R61 New Zealand (MCA 2100) CE
	UL/C-UL IP69K COLUS CE Innovation & Employr IP69K (case)

Avery Weigh-Tronix

www.averyweigh-tronix.com

Avery Weigh-Tronix is an ITW company

