# **Avery Weigh-Tronix**





Indicators for daily weighing tasks with powerful built-in applications.

Technical Specification

### **DESCRIPTION**

ZM201 Series indicators are ideal for applications that require a basic weighing indicator for performing Zero, Tare and Print functions. Their simple yet powerful design makes them the perfect choice for connecting with bench, platform or floor scale and bin/tank/hopper (vessel) scales.

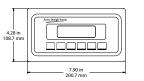
### **SPECIFICATIONS**

#### **GENERAL**

Operating Applications	General weighing, general weighing with accumulation, checkweighing, counting, peak measurement, batching and remote display		
Calibration	Two to five points stored		
Analog To Digital Measurement Rate	80 Hz		
Unit Of Measure	Two, 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 linearization		
Time And Date	Battery backed up time/date/year (12 hr or 24 hour format)		
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		
ELECTRICAL			
Power Requirements	Line voltage: 90 VAC to 264 VAC (110-240 VAC nominal), frequency 50 or 60 Hz, 12 to 36 VDC Power consumption: estimated at 150 mA at 12 VDC for one weight sensor and 180 mA at 12 VDC for four weight sensors		
Excitation	5 VDC, short circuit protected Supports up to four 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		
USER INTERFACE			
Operational Keys	Tare, Select, Zero, Print, Units, F1, On/Off (no keys on signal processor)		
Status Annunciators	Center of Zero, Motion, Gross, Net, Tare, Count, Print, Battery Status, Setpoint 1, Setpoint 2, Setpoint 3, Over/Under/Accept bar graph or fill bar graph, lb, kg, Preset Tare, Total, (Custom unit of measure– lb/oz, ton, gram, configurable), Active Ethernet connection		
Keypad	7 key chemical resistant polycarbonate		

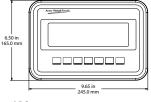
## ZM201 SERIES Technical Specification

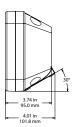
Display	ABS: TN backlit 7-digit seven segment display with 1.2 Stainless steel: TN backlit 7-digit seven segment display Panel mount: TN backlit 7-digit seven segment display Signal processor: No display Displays have annunciators for status and mode ident	y with 0.5 in / 13 mm high digits with 0.5 in / 13 mm high digits
Display Rate	Selectable (1, 2, 5, 10) times per second	incation
INPUT/OUTPUT	selectable (1, 2, 3, 10) times per second	
Remote Inputs	Three logic level inputs for Zero, Print, Tare, Units, or Se	alact
Standard Outputs	Three set point outputs, open collector design	. Icct
Communications	, , , , , , , , , , , , , , , , , , , ,	
Communications	Two serial ports: - Comm 1 RS232, no handshaking - Comm 2 RS232, no handshaking Ethernet: TCP/IP, DHCP, Static IP Protocols (all ports): - SMA Broadcast, Remote Display, and NCI ZM201 Signal Processor Modbus/TCP	4.28 in 108.7 mm 7.99 in 200.7 mm
Circuitry Protection	RFI, EMI and ESD protection	Panel Mount
PHYSICAL		
Operating Temperature	Compliance with legal-for-trade requirements  Approval: 14° to 104° F / -10° to 40° C  at 10 to 90% relative humidity, non-condensing  Industrial: -4° to 140° F / -20° to 60° C  at 10 to 90% relative humidity, non-condensing	6.50 in 165.0 mm
Enclosure	Stainless steel: 304 brushed stainless steel IP66 with tilt stand/mounting bracket  Plastic: ABS plastic IP20 with rubber feet  Panel mount: Stainless steel panel mount IP66	9,65 in 245.0 mm
Weight	ABS: 3.87 lb / 1.75 kg Stainless steel: 7.34 lb / 3.32 kg Panel mount: 4.18 lb / 1.89 kg Signal processor: 4.25 lb / 1.93 kg	9.63 in 244.6 mm 8.25 in 209.6 mm
Dimensions APPROVALS	See drawings	
Patent	US Patent 672,262	
Agencies  Measurement Canada Approved AM-5902C  C C UL US	NTEP (US) Class III/IIIL 10,000 d CC# 13-017 OIML (European and UK) Class III 6,000 d* Measurement Canada AM-5902C† Australia (NMI)* MID R61* South Africa* New Zealand* India* * Pending	8.43 in 214.1 mm  Stainless Steel
LISTED	CE* 1 Signal Processor UL/cUL not approved by EC* Measurement Canada	More online
OPTIONS	The state of the s	www.averyweigh
Battery Pack	Internal NiMH rechargeable pack providing 18 hours operation on a single weight sensor system and 14 hours on a four weight sensor system. Maximum charge time is five hours.	<ul><li>Technical specifications</li></ul>
ZM-OPTO	Provides setpoint interface	User manuals
Ethernet Watertight Gland	Rubberized and sealed	News and
AC to DC Power	In-Line AC to DC power module	information
Pole Mounting Kit	For ABS model	
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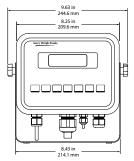


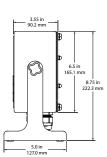
#### **Panel Mount**





ABS





Stainless Steel

## More online

www.averyweigh-tronix.com/zm201

- Technical specifications
- User manuals
- News and information



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www.averyweigh-tronix.com

- Avery Weigh-Tronix is an ITW company

