# **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**

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	
LECTRICAL		
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	
JSER 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	

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Display	ABS: TN backlit 7-digit seven segment display with 1.2 in / 30 m Stainless steel: TN backlit 7-digit seven segment display with 0.5 Panel mount: TN backlit 7-digit seven segment display with 0.5 Signal processor: No display Displays have annunciators for status and mode identification	5 in / 13 mm high digits
Display Rate	Selectable (1, 2, 5, 10) times per second	=EX.S. 16 [PA 65 mm]
NPUT/OUTPUT		°
Remote Inputs	Three logic level inputs for Zero, Print, Tare, Units, or Select	2.00 pt 40 mm)
Standard Outputs	Three set point outputs, open collector design	A (214.5 mg) A (214.6 mg)
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	Signal Processor  4.28 in 188.7 mm
Circuitry Protection	RFI, EMI and ESD protection	7.90 in 211 in 200.7 mm 53.5 mm
PHYSICAL		Panel Mount
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 less 0 mm
Enclosure	Stainless steel: 304 brushed stainless steel IP66 with tilt stan mounting bracket Plastic: ABS plastic IP20 with rubber feet Panel mount: Stainless steel panel mount IP66	9.65 in 245.0 mm 3.74 in 55.0 mm 4.01 in
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	ABS 4.01 in 101.8 mm 101.8 mm 101.8 mm 10244.6 mm 8.25 in 102924 mm 102.2
Dimensions APPROVALS	See drawings	Acres Weigh Insels.
Patent	US Patent 672,262	6.5 in 165.1 mm
Agencies  Measurement Canada Approved AM-5902C  AM-5902C	NTEP (US) Class III/IIIL 10,000 d CC# 13-017 OIML (European and UK) Class III 6,000 d Measurement Canada AM-5902C <sup>†</sup> Australia (NMI) MID R61 South Africa*	24.4 mm 137.0 mm
C E CULDUS	New Zealand * Pending India † Signal Processor CE not approved by UL/cUL Measurement Canada EC	More online
OPTIONS		MANANA AVORANCIAL traning com /m 201
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. For application environments that operate above 50° F / 10° C, the maximum charge time is fiv hours. For application environments that operate and charg below 10° C, the charger circuit will utilize trickle charging and full recharge will take up to 23 hours.	> Technical specifications  > User manuals > News and
ZM-OPTO	Provides setpoint interface	information
2 01.10		
Ethernet Watertight Gland	Rubberized and sealed	
	Rubberized and sealed In-Line AC to DC power module	

# **Avery Weigh-Tronix**

www.averyweigh-tronix.com

- Avery Weigh-Tronix is an ITW company

