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

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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	
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	

ZM201 SERIES Technical Specification

Display	ABS: TN backlit 7-digit seven segment display with 1.2 in / 30 mm high digits Stainless steel: TN backlit 7-digit seven segment display with 0.5 in / 13 mm high digits Panel mount: TN backlit 7-digit seven segment display with 0.5 in / 13 mm high digits Signal processor: No display Displays have annunciators for status and mode identification	
Display Rate	Selectable (1, 2, 5, 10) times per second	
NPUT/OUTPUT		
Remote Inputs	Three logic level inputs for Zero, Print, Tare, Units, or Se	elect
Standard Outputs	Three set point outputs, open collector design	
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 3.88 in 98.4 mm 2.00.7 mm 53.5 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	965 in 3.74 in 950 mm 401 in 101.8 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 3.55 in 3.55 in 90.2 mm
Dimensions	See drawings	
APPROVALS		
Patent	US Patent 672,262	
Agencies Measurement Canada Approved OIM	NTEP (US) Class III/IIIL 10,000 d CC# 13-017 OIML (European and UK) Class III and IIII 6,000 d (R76/2006-GB1-13.02) Measurement Canada AM-5902C† Australia (NMI S655) MID R61 New Zealand (2135)	Stainless Steel
LISTED	CE UL/cUL Signal Processor not approved by Measurement Canada	More online
OPTIONS		www.averyweigh-tronix.com/zn
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.	Technical specifications
ZM-OPTO	Provides setpoint interface	User manuals
Ethernet Watertight Gland	Rubberized and sealed	› News and

Avery Weigh-Tronix

information

www.averyweigh-tronix.com

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AC to DC Power

Pole Mounting Kit

In-Line AC to DC power module

For ABS model