Avery Weigh-Tronix

ZM615



Flexible weight indicator for advanced applications.



IP66 Stainless Steel Enclosure Graphic Display

DESCRIPTION

This high performance, multi-function indicator provides the flexibility to adapt to the most demanding applications. The addition of a larger 320 x 160 display helps to improve usability. This larger display provides an increased area to show more user prompts and graphics.

Suitable for the office, dusty, wet or high pressure and heavy washdown environments, these indicators can display, analyze, store, and transmit data across a range of technology methods to meet your specific installation.

SPECIFICATIONS

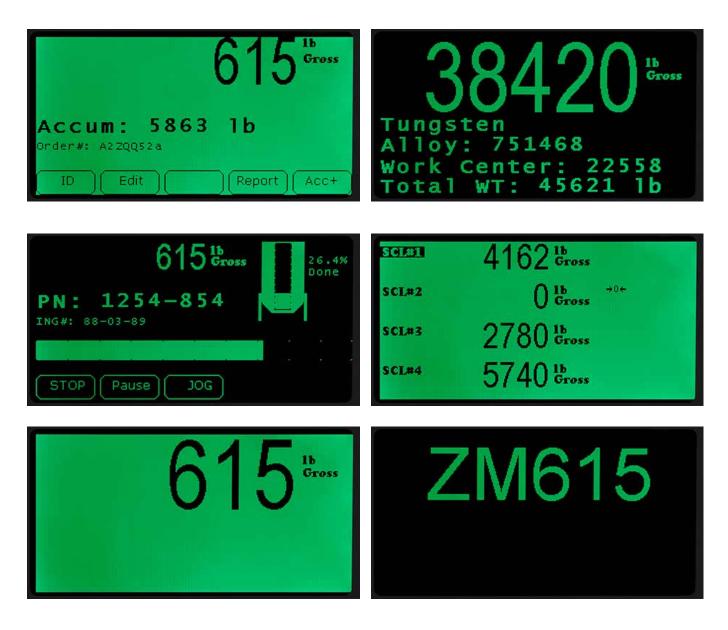
GENERAL

Unit of Measure	Four active choices (Kilograms, Ounce, Gram, Pounds, Pound/Ounce, Ton, Tonne, Custom)			
Capacity Selections	9,999,999 with decimal located zero to five places			
Incremental Selections	Multiples and sub-multiples of 1, 2, 5			
Multi-Range/Multi-Interval	Up to three independent weight ranges and divisions			
Programmable Selections	Zero range, motion detection, automatic zero tracking, eight point linearization			
Time and Date	Battery backed up time/date/year (12 hour AM/PM or 24 hour format)			
Calibration	Two to ten points			
Analog to Digital Measurement Rate	100 Hz			
Internal Resolution	67,108,864 counts per mV/V per second			
Digital Filtering	Harmonizer™ filtering with adaptable constant and threshold			
Self Diagnostics	Display, keys, inputs, outputs, serial port, scale A to D, USB port and option cards			
Dynamic Weighing	Minimum nominal weigh time 100 milliseconds, recommended minimum three hundred milliseconds			
Programming Language	Avery Weigh-Tronix Lua, GSE Macro			

ZM615 INDICATORS Technical Specification

ISER INTERFACE			
Keypad	ZM615 has a 29 key chemical resistant keypad with metal domed tactile feedback and audio confirmation when pressed Zero, Print, Units, Tare, Sample, Setup, ID, Scale, Target, 5 Function Keys (F1-F5), Select, Start, Stop, 0-9, Alpha, Decimal, Clear and Common Symbols		
Operational Keys			
Status Annunciators Center of Zero, Motion, Battery status, Preset Tare, Active Ethernet Connection, Unit of Meason on the dot matrix display			
Display	Improved Super Twisted Nematic (ISTN) Graphic Display: the green illuminated with black background 320 x 160 pixel display provides wide viewing angles and high brightness. Pixels can be organized on the display to create personalized Human Machine Interface messages and images. A mode selection allows the image to be displayed in reverse image for applications that would benefit from dark characters with a clear/light contrasted background.		
Display Rate	Selectable (1, 2, 5, 10, 20) times per second		

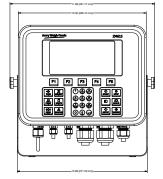
Dot Graphic Display Adapts to Meet the Solution

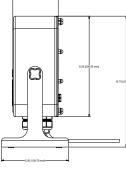


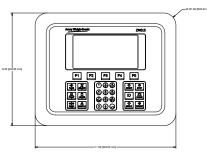
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PHYSICAL

Enclosure	Stainless steel desktop: 304 brushed stainless steel (IP69K certified) with GORE® Vent ventilation and tilt stand with provisions for desk, wall and column mounting Stainless steel panel mount: Stainless steel with easy access to interface connections	
Operating Temperature	14° F to 104° F / -10° C to 40° C (Compliance with legal for trade requirements) -4° F to 140° F / -20° C to 60° C (Industrial) 10 to 90% humidity non condensing	
Shipping Weight Stainless steel desktop: 12.4 lb (5.62 kg) Stainless steel panel mount: 11 lb (5 kg)		
Dimensions (L x W x H) Stainless steel desktop: 11.88" x 5.5" x 10.75" (301.69 mm x 139.70 mm x 273.05 mm) Stainless steel panel mount: 11.56" x 3.6" x 9.25" (293.69 mm x 91.60 mm x 234.95 mm)		









INPUT/OUTPUT

Remote Inputs	Three TTL or voltage free logic level inputs can be received for basic key functions or application program events				
Standard Outputs	Three outputs can be used for system variable setpoints or in combination with application program events				
Serial Ports (3)	Three serial ports: - Comm 1 R5232 full duplex Or - Comm 1 R5232 Full duplex with handshaking - Comm 2 R5232 full duplex - Comm 2 R5232 Not available - Comm 3 R5232 full duplex - Comm 3 R5232 Full duplex with handshaking Manual and Autoprint function - Comm 3 R5232 Full duplex with handshaking Supports SMA, ENQ and NCI command - Comm 3 R5232 Full duplex with handshaking Supports BSQ digital bench base - Comm 3 R5232 Full duplex with handshaking				
USB Host (2)	Two USB Host ports for: > Printer > USB flash memory > Remote USB keyboard				
Ethernet	The Ethernet port can be configured to support ten independent devices. It supports DHCP, UDP Sockets, TCP/I (client or server), embedded web server, email, SMA, NCI, FTP, ENQ and Broadcast.				
Fieldbus	Ethernet/IP™ and Modbus-TCP				
ECTRICAL					
Power Requirements	Line voltage: 90-264 VAC (110-240 VAC nominal), frequency 50 or 60 Hz, 12 to 36 VDC Power consumption: estimated at 300mA at 12VDC for one 350 ohm weight sensor and 650mA at 12VDC for fourteen 350 ohm weight sensors				
Excitation	10 VDC (+/-5 VDC), short circuit protected Supports up to thirty two 350 ohm weight sensors (four scales) 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				
	RFI, EMI and ESD protection (10 V/m minimum RFI noise immunity)				

ZM615 INDICATORS Technical Specification

Option Kits (maximum four internal options)	Analog output kit: 0-5 VDC, 0-10 VDC and 4-20 mA Current loop kit: Current loop and RS232/RS422 USB device kit: Provides USB interface to PC (virtual comm Port) Device Net [™] Profibus [®] Wireless (Ethernet) internal kit: 802.11b/g wireless data communications kit with antenna Internal 120 VAC Relay module for IP69K model Scale Input 5 VDC excitation Scale Input 5 VDC excitation with STVS kit External I/O interface kit DC Output, 4 relays 3-60VDC at 2A Kit DC Input, 4 Inputs 1-20VDC kit (IP69K models) AC Input, 4 Inputs 120-240VAC kit (IP69K models) Severe Transient Voltage Suppressor (STVS)
ZM-OPTO	Provides 3 inputs and/or 3 outputs, external G4 interface modules
USB Watertight Gland	Rubberized and sealed
Ethernet Watertight Gland	Rubberized and sealed

APPROVALS

Patent	US Patent 672,262		
Agencies	NTEP (US) Class III/IIIL 10,00 Measurement Canada class UL/cUL IP69K	Measurement Canada Approved	IP69N



www.averyweigh-tronix.com

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