Avery Weigh-Tronix





Flexible weight indicator for advanced applications.

Technical Specification







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 large display provides an increased area to show more user prompts and graphics.

IP66 Stainless Steel Enclosure

Graphic Display

IP69K

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

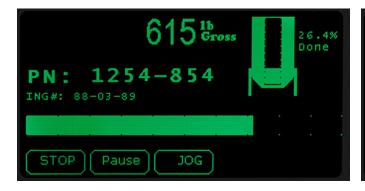
USER INTERFACE

Keypad	ZM615 has a 29 key chemical resistant keypad with metal domed tactile feedback and audio confirmation when pressed
Operational Keys	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
Status Annunciators	Center of Zero, Motion, Battery status, Preset Tare, Active Ethernet Connection, Unit of Measure and more are shown on the dot matrix display
Display	Desktop: Improved Super Twisted Nematic (ISTN) Graphic Display: green illuminated with black background
	Panel Mount: Film Compensated Super Twisted Nematic (FSTN) Transflective Direct Sunlight readable Graphic Display: black illuminated with green background
	Both displays provide 320 x 160 pixel display with a wide viewing angle 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.
Display Rate	Selectable (1, 2, 5, 10, 20) times per second

Dot Graphic Display Adapts to Meet the Solution













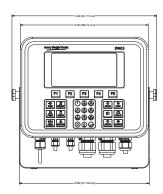


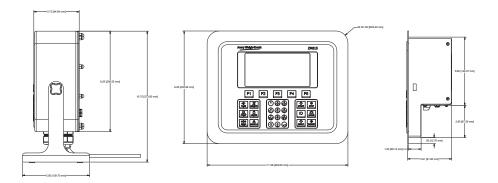
PHYSICAL

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)

Difficusions (L X W X 11)

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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 RS232 full duplex - Comm 2 RS232 full duplex - Comm 3 RS232 full duplex - Comm 3 RS232 full duplex - Comm 3 RS232 Full duplex with handshaking Manual and Autoprint function Supports SMA, ENQ and NCI command response protocols and broadcast Supports BSQ digital bench base
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/IP (client or server), embedded web server, email, SMA, NCI, FTP, ENQ and Broadcast.
Fieldbus	Ethernet/IP™ and Modbus-TCP
ELECTRICAL	
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 (five analog or eight with analog/digital configuration) 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 μ V/V/divisions minimum 0.5 μ V/V/divisions recommended
Circuitry Protection	RFI, EMI and ESD protection (10 V/m minimum RFI noise immunity)

ZM615 INDICATORS Technical Specification

OPTIONS

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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 10 VDC excitation with STVS kit External I/O interface kit DC Output, 4 relays 3-60VDC at 2A Kit DC Input, 4 Inputs 4-30VDC kit AC Output, 4 relays 20-240VAC at 1A 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 10,000d (CC# 14-039) Measurement Canada class III/III HD (AM-5955C) UL/cUL IP69K Measurement Canada Approved CUL US IP69K Measurement Canada Approved



www.averyweigh-tronix.com

Avery Weigh-Tronix is an ITW company

