

Indicators that adapt to your application and provide measurement and control to your operations.

Technical Specification











IP69K Stainless Steel Enclosure IBN Display

DESCRIPTION

These high performance, multi-function programmable indicators give you the flexibility to adapt them for your applications.

Suitable for the office, dusty, wet or high pressure and heavy washdown environments, the ZM400 series can display analyze, store, and transmit data across a range of technology methods to meet your specific installation.

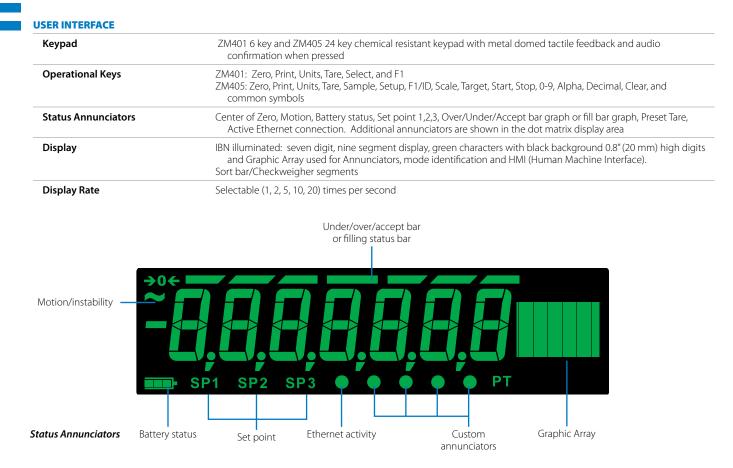
SPECIFICATIONS

GENERAL

Unit of Measure	Four active choices (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
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	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, 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

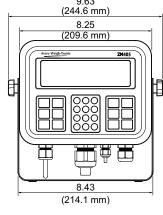
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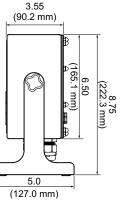
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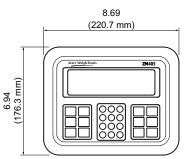


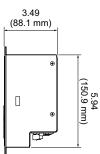
PHYSICAL

Enclosures	Stainless steel: 304 brushed stainless steel (IP69K cert for desk, wall and column mounting Panel mount: Stainless steel panel mount IP66	ified) with GORE® Vent ventilation a	nd tilt stand with provision:
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: 9 lb (4.1 kg) Panel mount: 7 lb (3.2 kg)		
Dimensions (L X W X H)	Stainless steel: 9.6" x 5" x 8.8" (243 mm x 127 mm x 223 mm) Panel mount: 8.7" x 3.4" x 6.9" (221 mm x 86 mm x 175 mm)		
9.63 (244.6 mm)	3 55	8 69	3 49









Stainless Steel

Avery Weigh-Tronix

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	Two serial ports: - Comm 1 RS232 full duplex Or - Comm 1 RS232 full duplex with handshaking - Comm 2 RS232 full duplex - Comm 2 Not available Manual and Autoprint function plus - Comm 2 Not available programmable Input Interpreter - Supports SMA, ENQ and NCI command/response protocols - Supports BSQ digital base	
USB Host	Printer USB flash memory Remote USB keyboard	
Ethernet	The Ethernet port can be configured to support five independent devices, it supports DHCP client/server and Ethernet sockets plus it supports all the serial protocols	
Fieldbus	Ethernet IP and Modbus TCP	
LECTRICAL		
Power Requirements	Line voltage: 90-264 VAC (110-240 VAC nominal), frequency 50 or 60 Hz, 12 to 36 VDC Power consumption: estimated at 250mA at 12VDC for one 350 ohm weigh sensor and 600mA at 12VDC for fourteer 350 ohm weigh sensors.	
Excitation	10 VDC(+/-5 VDC), short circuit protected Supports up to sixteen 350 ohm weight sensors (two 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	
Circuitry Protection	RFI, EMI and ESD protection (10 V/M minimum RFI noise immunity)	
DPTIONS		
Option Kits (choose one*)	Analog output kit: 0-5 VDC, 0-10 VDC and 4-20 mA* Current loop kit: Current loop and RS485/RS422* USB device kit: Provides USB interface to PC* 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 kit* 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 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 setpoint interface	
USB Watertight Gland	Rubberized and sealed	
Ethernet Watertight Gland	Rubberized and sealed	

APPROVALS

Patent	US Patent 672,262
Agencies	EC (Europe) Class III and IIII (UK 3002) NTEP (US) Class III/IIIL 10,000 d (CC# 14-039) OIML R76 Class III and IIII (R76/2006-GB1-15.07) Measurement Canada (AM-5955C) Australia (NMI)* South Africa* New Zealand* India* MID R61 (UK/0126/0177) CE UL/C-UL IP69K (case) *pending *pending Ministry of Business, India* Ministry of

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