Avery Weigh-Tronix

ZM
205 INDICATOR

ZM205 Operator Display

A fast, reliable, dual-display indicator for use at airport check-in desks.

Technical Specification

ZM205 Passenger Display

DESCRIPTION

The ZM205 meets airport check-in desk needs by providing fast, accurate weight readings. Includes both operator-facing and passenger-facing display units and is designed to interface with a wide range of scale bases, PCs and printers. The ZM205 operator indicator can be fitted with an optional Profibus or Relay Control kit which can interface with a baggage conveyor system to automate the movement of the conveyor.

SPECIFICATIONS

GENERAL

Operating Applications	Baggage weighing
Calibration	Two to five points stored
Analog To Digital Measurement Rate	80 Hz
Unit Of Measure	2, configurable (pounds, kilograms)
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 (including passenger display) and 180 mA at 12 VDC for four weight sensors (including passenger display).
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

USER INTERFACE

Operational Keys (Operator Indicator)	CE/C*, Select, Zero, M-, M+, F1 (no keys on passenger display)
Status Annunciators	Center of Zero, Motion, Gross, Total, Over, Bag, lb, kg, active Ethernet connection
Keypad	6 key chemical resistant polycarbonate
Display	*Operator unit:* TN backlit 7-digit seven segment display with 0.5 in / 13 mm high digits *Passenger unit:* TN backlit 7-digit seven segment display with 0.5 in / 13 mm high digits
Display Rate	Selectable (1, 2, 5, 10) times per second

INPUT/OUTPUT

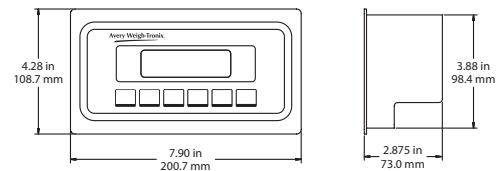|	
Remote Inputs	Three logic level inputs for Zero, Units, Print, Select, Tare, M+, M-, or Print Hold
Standard Outputs	Three set point outputs, open collector design
Communications	Two serial ports: - Comm 1 RS232, no handshaking - Comm 2 RS232, no handshaking - Protocols, SMA, Broadcast, Enquire, Remote Display and NCI Ethernet: used for passenger display connection
Circuitry Protection	RFI, EMI and ESD protection
Optional	Profibus-DP V1 interface Output registers include current weight, stability indication and status information. Input register allows external Tare. Baud rate is auto-sensing within the ProfiBus specification. Internal relay switch Normally open contact relay that supports 8A at 250VAC.

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
Enclosure	IP66 stainless steel panel mount
Shipping Weight	8.01 lb / 3.63 kg
Dimensions	*See drawings*

Operator Display

Passenger Display

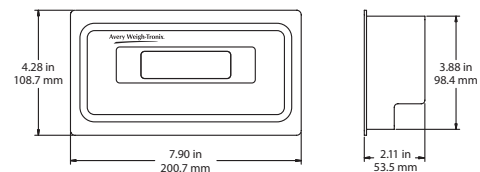## APPROVALS

Agencies	NTEP (US) Class III/IIIL 10,000 d (CC# 13-017) OIML (European and UK) Class III 6,000 d Measurement Canada AM-5902C Australia (NMI)* South Africa* New Zealand* India* CE UL/cUL * Pending EC

Measurement Canada Approved
AM-5902C

OIML

CE

c UL us
LISTED

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ISO 9001