

## ZM205 INDICATOR

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

*Technical Specification*



**ZM205 Operator Display**



**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

<b>Operating Applications</b>	Baggage weighing
<b>Calibration</b>	Two to five points stored
<b>Analog To Digital Measurement Rate</b>	80 Hz
<b>Unit Of Measure</b>	2, configurable (pounds, kilograms)
<b>Capacity Selections</b>	9,999,999 with decimal located zero to five places
<b>Incremental Selections</b>	Multiples and sub-multiples of 1, 2, 5
<b>Programmable Selections</b>	Zero range, motion detection, automatic zero tracking, five point linearization
<b>Time And Date</b>	Battery backed up time/date/year (12 hr or 24 hour format)
<b>Internal Resolution</b>	53,687,100 counts per mV/V per second
<b>Digital Filtering</b>	Harmonizer filtering with adaptable constant and threshold
<b>Self Diagnostics</b>	Display, keys, inputs, outputs, serial port

### ELECTRICAL

<b>Power Requirements</b>	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).
<b>Excitation</b>	5 VDC, short circuit protected Supports up to four 350 ohm weight sensors 4 or 6 conductors with sense leads Detachable plug connectors
<b>Analog Signal Input Range</b>	-1 mV/V to 5 mV/V
<b>Analog Signal Sensitivity</b>	0.1 $\mu$ V/V/divisions minimum 0.5 $\mu$ V/V/divisions recommended

## USER INTERFACE

<b>Operational Keys (Operator Indicator)</b>	CE/C*, Select, Zero, M-, M+, F1 (no keys on passenger display)
<b>Status Annunciators</b>	Center of Zero, Motion, Gross, Total, Over, Bag, lb, kg, active Ethernet connection
<b>Keypad</b>	6 key chemical resistant polycarbonate
<b>Display</b>	<i>Operator unit:</i> TN backlit 7-digit seven segment display with 0.5 in / 13 mm high digits <i>Passenger unit:</i> TN backlit 7-digit seven segment display with 0.5 in / 13 mm high digits
<b>Display Rate</b>	Selectable (1, 2, 5, 10) times per second
<b>INPUT/OUTPUT</b>	
<b>Remote Inputs</b>	Three logic level inputs for Zero, Units, Print, Select, Tare, M+, M-, or Print Hold
<b>Standard Outputs</b>	Three set point outputs, open collector design
<b>Communications</b>	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
<b>Circuitry Protection</b>	RFI, EMI and ESD protection
<b>Optional</b>	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

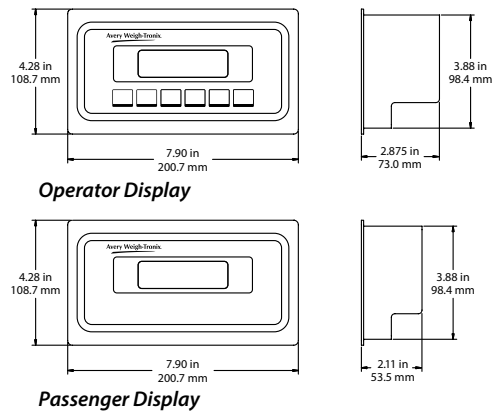
<b>Operating Temperature</b>	Compliance with legal-for-trade requirements <i>Approval:</i> 14° to 104° F / -10° to 40° C at 10 to 90% relative humidity, non-condensing <i>Industrial:</i> -4° to 140° F / -20° to 60° C at 10 to 90% relative humidity, non-condensing
<b>Enclosure</b>	IP66 stainless steel panel mount
<b>Shipping Weight</b>	8.01 lb / 3.63 kg
<b>Dimensions</b>	See drawings

## APPROVALS

<b>Agencies</b>	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 S566) New Zealand (2135) CE UL/cUL EC
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Measurement  
Canada Approved



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