



*Technical Specification*

## DESCRIPTION

The ZB210 from Avery Weigh-Tronix is a microprocessor-based digital junction box that provides unparalleled flexibility to new and existing truck scales, floor scales and batching Weigh Bar® systems.

Designed to meet the rigors of all outdoor and industrial environments, the ZB210 converts separate analog weight sensor signals to individual digital readings and internally processes them. With a serial connection to an

Avery Weigh-Tronix ZM Series Programmable Indicator, the more detailed weight sensor information maximizes the longterm performance of any weighing system.

The ZB210 is available in two different form factors. The compact ZB210-SG and ZB210-LG are used for most indoor applications. Outdoor applications, such as truck scales, use the ZB210-STVS which provides an extra layer of isolation from lightning strikes prevalent in many areas of the country.

## FEATURES & BENEFITS

- › Quick system calibration
- › Rugged enclosure
- › Rapid corner balancing
- › Interface cable performance verification
- › Signal strength monitoring
- › Sensor imbalance
- › Individual weight sensor monitoring
- › Sensor ghosting
- › Operator system error messages
- › Hardwired interface distance up to 1000 feet
- › Each ZB210 assembly accommodates four weight sensors
- › Up to four ZB210's can be networked together for a total of sixteen weight sensors
- › Input and excitation voltage monitored
- › Retrievable error log file
- › Sensor cell swap

## SPECIFICATIONS

### ENVIRONMENTAL

<b>NTEP Tested Temperature</b>	14°F to 104°F (-10°C to 40°C)
<b>Operating Temperature</b>	-40°F to 140°F (-40°C to 60°C).
<b>Humidity</b>	0-90% relative, non-condensing
<b>Enclosure</b>	Type 304 Stainless steel, designed to meet IP66
<b>Surge Suppression</b>	<b>ZB210-STVS</b> 1500 Watt peak Power Transorb diodes. + 90V Gas Discharge Tube Surge Arresters <b>ZB210-SG or ZB210-LG</b> 600 Watt peak Power Transorb diodes

# ZB210 DIGITAL J-BOX *Technical Specification*

## MECHANICAL

<b>Dimensions</b>	<b>ZB210-STVS</b> 11.1" L x 5.9" W x 2.7" H (28.2 cm x 15 cm x 6.9 cm) <b>ZB210-SG or ZB210-LG</b> 10.2" L x 4.6" W x 1.8" H (26 cm x 11.8 cm x 4.6 cm)
<b>Weight</b>	<b>ZB210-STVS</b> 4 lb (1.8 kg) <b>ZB210-SG or ZB210-LG</b> 3 lb (1.4 kg)
<b>Cable Fittings</b>	IP67 waterproof glands with relief
<b>Sensor Cable Entry</b>	<b>ZB210-STVS</b> .2" to .3" (5mm to 8mm) diameter cables <b>ZB210-SG</b> .1" to .2" (3mm to 5mm) diameter cables <b>ZB210-LG</b> .2" to .3" (5mm to 8mm) diameter cables.
<b>Cable Termination</b>	Push Button, Tool Free, Spring Tension Terminals

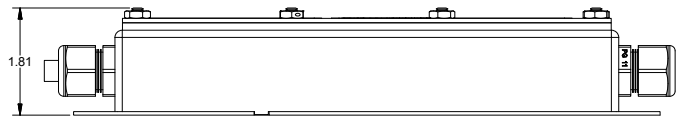
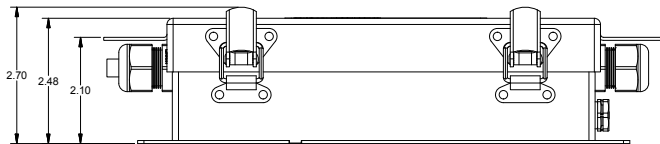
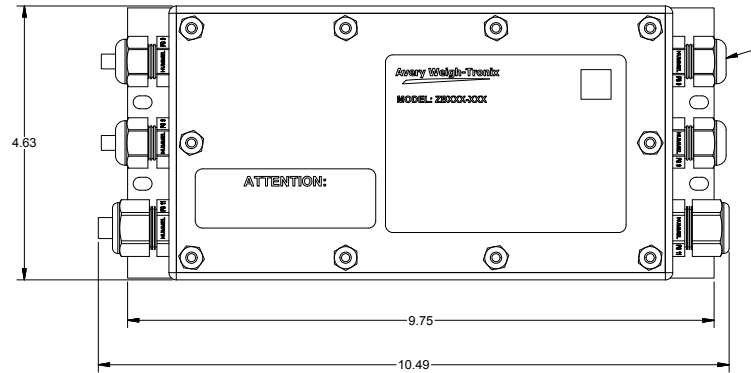
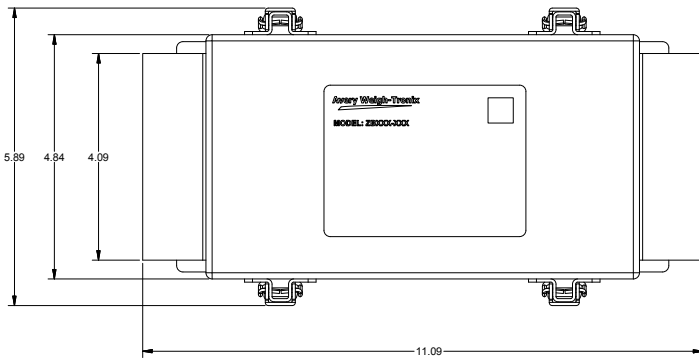
## ELECTRICAL

<b>Power Requirements</b>	12-36 VDC @ 0.40 amps supplied by indicator or external power supply
<b>Agencies</b>	Complies with FCC part 15

## PERFORMANCE

<b>Inputs</b>	Four 1 to 5mV/V analog sensor inputs
<b>A/D Conversion</b>	160 Hz
<b>Weight Sensor Excitation</b>	5 VDC
<b>Resolution per Channel</b>	Exceeds 1,000,000 counts
<b>Data Transfer Rate</b>	29 Hz
<b>Data Output</b>	Proprietary data stream over RS232 or RS485
<b>Digital Filtering</b>	Harmonizer™
<b>Agencies</b>	NTEP CC#: 18-072

Measurement Canada and OIML approved when used with the ZM510/ZM605/ZM615 and ZK840



# Avery Weigh-Tronix

[www.averyweigh-tronix.com](http://www.averyweigh-tronix.com)

**Avery Weigh-Tronix is an ITW company**