Avery Weigh-Tronix

ZB210
DIGITAL J-BOX SYSTEM

ZB210 STVS

ZB210-LG

ZB210-SG

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 long-term 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

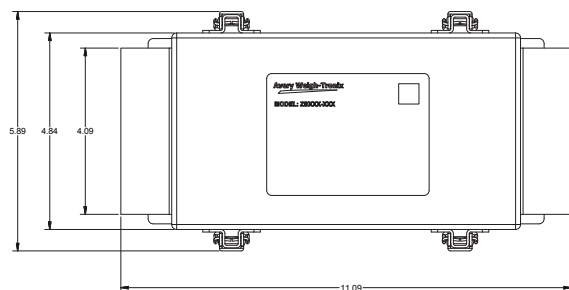|	
NTEP tested temperature	14°F to 104°F (-10°C to 40°C)
Operating Temperature	-40°F to 140°F (-40°C to 60°C)
Humidity	0-90% relative, non-condensing
Enclosure	Type 304 Stainless steel, designed to meet IP66
Surge Suppression	**ZB210-STVS** 1500 Watt peak Power Transorb diodes. + 90V Gas Discharge Tube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

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MECHANICAL

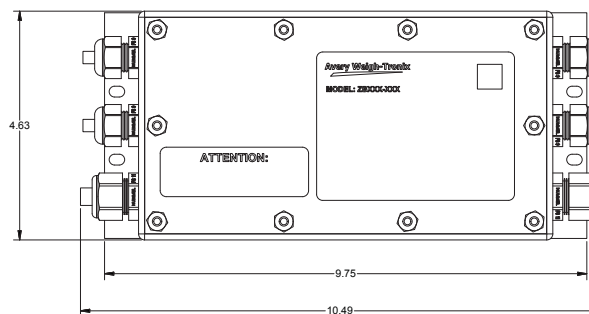|	
Dimensions	**ZB210-STVS** 11.1″ L x 5.9″W x 2.7″ H (28.2 cm x 15 cm x 6.9 cm)
	ZB210-SG or ZB210-LG 10.2″ L x 4.6″W x 1.8″ H (26 cm x 11.8 cm x 4.6 cm)
Weight	**ZB210-STVS** 4 lb (1.8 kg)
	ZB210-SG or ZB210-LG 3 lb (1.4 kg)
Cable fittings	IP67 waterproof glands with relief
Sensor Cable Entry	**ZB210-STVS**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

ELECTRICAL

Power requirements	12-36 VDC @ 0.40 amps supplied by indicator or external power supply
Agencies	Complies with FCC part 15

PERFORMANCE

Inputs	Four 1 to 5mV/V analog sensor inputs
A/D conversion	160 Hz
Weight sensor excitation	5 VDC
Resolution per channel	Exceeds 1,000,000 counts
Data transfer rate	20 Hz
Data output	Proprietary data stream over RS232 or RS485
Digital filtering	Harmonizer™
Agencies	NTEP CC#: 18-072 Measurement Canada and OIML approved when used with the ZM505/510/605/615 and ZK840

ZB210 STVS

ZB210-SG or ZB210-LG

www.averyweigh-tronix.com

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