



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 |

ZB210 DIGITAL J-BOX *Technical Specification*

MECHANICAL

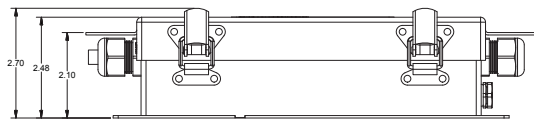
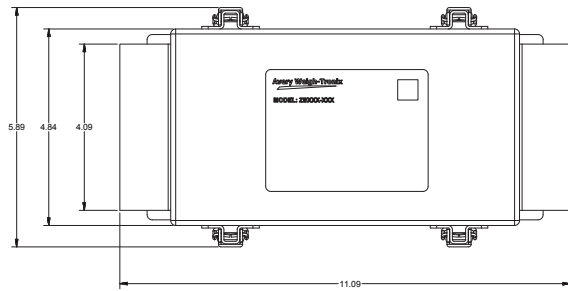
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|---------------------------|--|
| Dimensions | ZB210-STVS 11.1" L x 5.9"W x 2.7"H (28.2 cm x 15 cm x 6.9 cm) |
| | ZB210-SG or ZB210-LG 10.2" L x 4.6"W x 1.8"H (26 cm x 11.8 cm x 4.6 cm) |
| Weight | ZB210-STVS 4 lb (1.8 kg) |
| | ZB210-SG or ZB210-LG 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

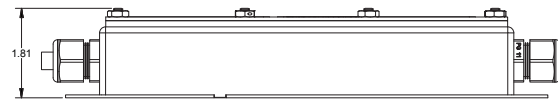
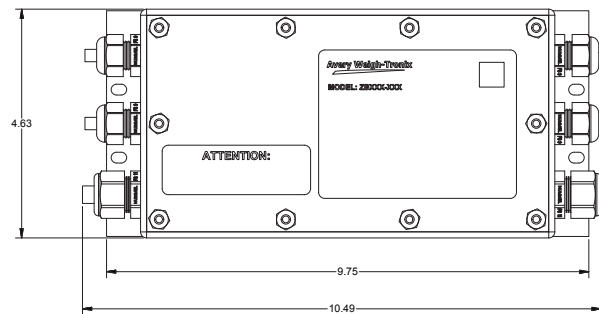
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|---------------------------|--|
| Power requirements | 12-36 VDC @ 0.40 amps supplied by indicator or external power supply |
| Agencies | Complies with FCC part 15 |

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

Avery Weigh-Tronix

www.averyweigh-tronix.com

Avery Weigh-Tronix is an ITW company



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