



## DESCRIPTION

### GENERAL

The AVS-7 Vehicle Scale Controller is based on the E1310 indicator and provides a reliable solution for truck scale applications that require stand-alone, unattended, driver-operated weighing. The system is available with many different hardware configurations to meet exact customer needs.

It connects seamlessly to any Avery Weigh-Tronix truck scale as well as many other makes and models.

### ROBUST DESIGN

The AVS-7 components are all UL approved and housed in a rugged, lockable enclosure that is NEMA 4 rated for outdoor environments.

### STANDARD FEATURES

Panel mounted E1310 indicator with sun shield, thermal printer with cutter/presenter and large paper roll.

Transactions are stored in the indicator's memory. Database tables are provided for Tag ID, Vehicle ID, Contract ID, Customer ID, Product ID, and Hauler ID. There are also four fields that can be user defined.



## SPECIFICATIONS

### GENERAL

<b>Power</b>	100-130 VAC, 12 A, 50/60 Hz 230 VAC, 6A, 50/60 Hz
<b>Fusing</b>	10A 3 AG

### E1310 USER INTERFACE

<b>Display Type</b>	Dot graphic cold cathode fluorescent backlit, white characters on blue background. 1.5" high x 5" wide (38.1 mm x 127 mm), 64 x 240 dot layout. Capable of displaying alpha-numeric characters.
<b>Decimal point</b>	Configurable to any of the 8 positions
<b>Units of measure</b>	kg, g, lb, oz, lb-oz plus 4 programmable custom units
<b>Refresh rate</b>	Programmable up to 10 times per second
<b>Languages</b>	Selectable operation prompts in English, French and Spanish
<b>Keypad</b>	24 Tactile/audio feedback corrosion resistant keys: 10 Alpha numeric entry 9 Dedicated function keys (Zero, Tare, Print, Units, Select, Enter, Escape, Clear and Decimal Point) Note: These keys can also be assigned specific tasks. 5 Programmable and labeled soft keys (F keys)

### LOAD CELL INPUT

<b>Analog number of cells</b>	Can support/power up to 32 x 350Ω strain gauge load cells using 4 or 6 wire connection technology. Indicator to scale separation up to 2000 ft.
<b>Excitation</b>	10V DC or 10V AC square wave
<b>Analog to digital converter</b>	Type: Delta Sigma Rate: 60 updates per second Resolution: 1,000,000 increments 14° F to +104° F (-10° C to +40° C)

### ZERO

<b>Setting</b>	Keypad push button programmable to be effective between 1% and 100% maximum capacity
<b>Zero band</b>	Non-approved, ± 100% of maximum capacity Approved, ± 2% of maximum capacity
<b>Zero indication</b>	The "↔0↔" symbol is turned on when the gross weight is within ± ¼ division of the zero scale interval.
<b>Zero tracking</b>	Programmable to track zero, in either net or gross mode, within the zero band
<b>Under and over range indication</b>	Display is "dashed" out and an operator warning is displayed.

### LINEARIZATION/MULTIPLIER

<b>Linearization</b>	Full digital 10 point linearization
<b>Increment multiplier</b>	Sets or subsets of 1, 2, & 5 i.e. 0.001 to 50

### FILTERS/DAMPING

<b>Type</b>	Harmonizer™ digital filtering is fully adjustable to damp out the effects of noise and vibration.
<b>Stages</b>	Frequency – 6 levels of adjustment Amplitude – 8 levels of adjustment Threshold – Band, outside of which frequency/amplitude filtering is disabled until new band is established around new nominal weight

<b>REAL TIME CLOCK</b>	Battery backed real time clock for time and date stamping data
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<b>PRINTER</b>	Direct thermal, guillotine cutter, jam-preventing loop presenter, tear-preventing pull detector, auto paper loading, 203-dpi printing (8 dots/mm)
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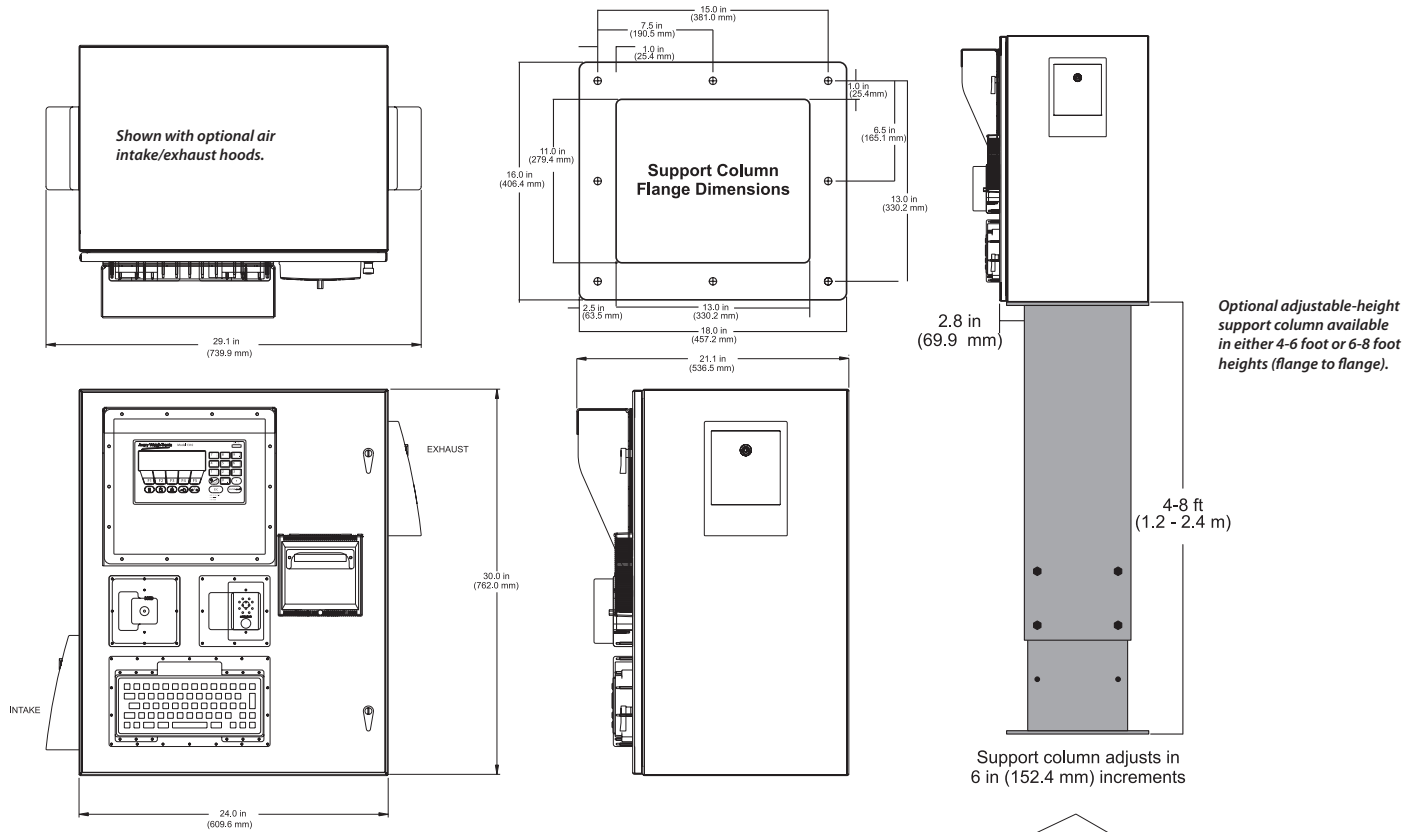
<b>Paper Roll</b>	Thermal, 3.15 in (80 mm) width, 6 in (152 mm) diameter, 660 ft (201 m) total length
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<b>INDUSTRIAL NETWORK CARDS</b>	Capabilities include monitoring and data collection via a web browser (HTTP), operational updates and error reporting via e-mail (SMTP) and raw data transmission via FTP. Two separate industrial networks can operate at the same time. They can operate independently or transfer data between the networks. DeviceNet™ card ProfiBus® card Ethernet10/100 card [supports Ethernet-ModBus TCP, Ethernet TCP/IP (raw socket client), Ethernet TCP/IP (raw socket server), Ethernet IT, Ethernet/IP, HTTP, SMTP, SSI and FTP]
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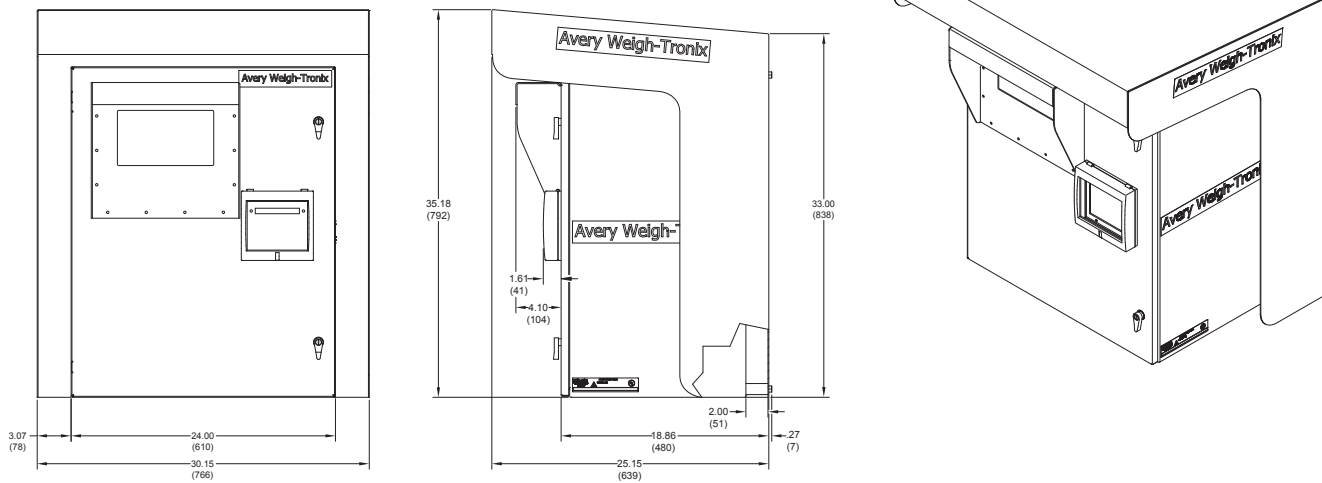
<b>ENCLOSURE</b>	Lockable painted steel, NEMA 4 standard, NEMA 3R with ventilation
<b>Enclosure Heater (optional)</b>	400W, 115 VAC, 50/60 Hz, 3.72 Amps, thermostat controlled 400W, 230 VAC, 50/60 Hz, 1.86 Amps, thermostat controlled
<b>Enclosure Ventilation (optional)</b>	NEMA 3R, ball bearing axial fan, lockable intake and exhaust hoods, replaceable F5 synthetic filters.
<b>ENVIRONMENTAL</b>	
<b>Storage temperature</b>	-40° F to + 140° F (-40° C to +60° C)
<b>Operating temperature</b>	14° F to + 104° F (-10° C to +40° C)
<b>Humidity</b>	0 to 95% non-condensing
<b>OPTIONS</b>	
<b>Memory Expansion</b>	Up to 2 memory expansion cards can be added to give a total of 8 MB additional memory. 1 MB card 4 MB card
<b>Proximity Card Reader</b>	Rugged, weatherized polycarbonate enclosure, tri-state LED indication, read range up to 8 in (203 mm), transmit frequency 125 kHz, recognizes card formats up to 37-bit.
<b>Proximity Access Card</b>	Frequency 125 kHz, operating temperature -50° F to 160° F (-45° to 70° C), weight 0.24 oz (6.8 g), dimensions 2.14" x 3.39" x 0.08" (5.4 x 8.6 x 0.2 cm)
<b>QWERTY Keyboard</b>	61 keys, vandal resistant (20J BS EN 60068-2-75:1997) stainless steel front plate, weather resistant (IP65)
<b>Loop Vehicle Detector</b>	I/O selectable sensitivity levels, two-color LED status indicator, self-tuning, continuous loop monitor remembers intermittent and failed loops, respond time 125 milliseconds after vehicle enters loop, loop inductance range 20 to 2,000 microhenries with Q factor of 5 or greater
<b>Approach Loops</b>	Preformed wire
<b>Traffic Light Control</b>	Four (4) Opto 22 solid state relays
<b>WARRANTY</b>	Two-year limited
<b>APPROVALS</b>	NTEP Class III/IIIL to 10,000 divisions CC# 01-033 A1 EC approval No: UK 2678 type approval certificate to 6,000 divisions (single platform only). Meets and exceeds the requirements of EN45501:1992. European Accuracy class III machines CE marked UL 508 approved FCC class A



DIMENSIONS



**Shown with optional sun shroud.**



**Avery Weigh-Tronix**

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

*Avery Weigh-Tronix is an ITW company*

