

# The Vulcan V600 Electronics System

The highest quality on-board scale electronics for the trucking industry.

The system that combines the most advanced electronics with a user-friendly operation. Works with existing Vulcan load cells and air sensors. Ideal for applications requiring more than two channels, set points, recording weight information, interface to on-board printers and computers, or operators who wish to mix tractors and trailers.



## KEY FEATURES:

- Uses the new **VULCAN SINGLE LINE (VSL)** technology
- Unlimited mixing of trucks and trailers without any adjustment, just plug in and go
- Handles up to 6 channels
- Adjustable cycle time (between channels)
- Brilliant display - large, red LEDs with 4 brightness settings for easy viewing inside/outside the cab
- 16-character, LED, dot-matrix secondary display for user-friendly meter interface
- Simple operation with new auto-calibrate feature
- Lockout feature allows full operation of scales while safeguarding against accidental changing of calibration settings
- Reduced wiring - a **single 2 wire cable** provides power and communication for all channels
- Printer interface with date and time
- Set points with relay drivers to control lights and alarms
- Interface to on-board computers
- Configurable for custom applications including weigh-in-motion
- Can capture up to 2000 events including date, time, and weight for down loading (depending on application)
- Works with Vulcan Super-Beam™, fifth wheel, single point, trunnion, shear pin, center hanger load cells, and air sensors

QUALITY, DEPENDABILITY, SIMPLICITY FROM  
THE WORLD LEADER IN ON-BOARD SCALES



## V600 ELECTRONICS SYSTEM

ON-BOARD ELECTRONICS  
FOR TRUCK AND TRAILER

### UNITED STATES

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## V600 METER

### DESCRIPTION:

The Vulcan V600 meter displays individual axle group weights (up to six channels) and the total weight. The meter display can be fixed on any single channel or group of channels or automatically cycled through all active channels. Cycle times are user adjustable from 1 to 9 seconds. The large, primary display can be easily read from outside the truck, if desired. The secondary dot-matrix readout displays an extensive set of help instructions assisting the user to quickly and easily identify and correct a problem, if it occurs.

The V600 meter uses the new Vulcan Single Line (VSL) technology to minimize truck and trailer wiring for the best reliability. A V600 meter can immediately identify and read the weight from any other VSL equipped truck or trailer.

### SPECIFICATION:

**DISPLAY:** LED, variable brightness  
Primary: 6 - .7" high characters  
Secondary: 16 - .2" high characters

**CYCLE SPEED:** Variable, 1-9 seconds

**SIZE:** 8.0" W x 2.6" D x 3.6" H (including mounting bracket)

**RESOLUTION:** 10, 20, 50, 100, or 200 lb or kg increments

**VOLTAGE REQUIRED:** 10.5 to 29.0 Vdc

**CURRENT DRAW:** .7 to 2 amps

**PROTECTION:** Inline, 2 amp fast acting fuses and reverse voltage protection

**WEIGHT:** 27.8 oz (including mounting bracket)

## VSL VULCODER

### DESCRIPTION:

The VSL Vulcoder receives the analog voltage signal from the load cells or air sensor. A computer inside the Vulcoder then calculates the weight based on the calibration values stored in its memory. When the meter requests weight from a channel, the proper Vulcoder will respond and send the weight information back to the meter. All VSL Vulcoders connect to the same two wire line. Any VSL equipped trailer can be plugged into any truck with a V600 meter and be immediately identified and read properly.

### SPECIFICATION:

**SIZE:** 5.6" W x 4.6" D x 1.5" H

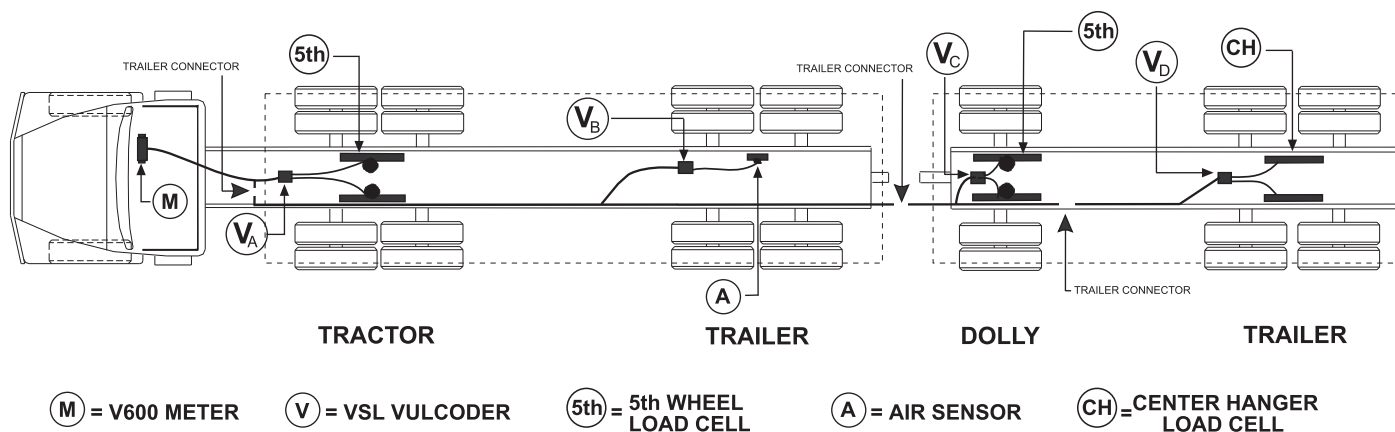
**2-WIRE COMMUNICATION CABLE:** Vulcan designed special cable, urethane jacketed, remains flexible in cold weather

**4-WIRE SENSOR CABLE:** Vulcan designed special shielded cable, polyurethane jacketed, 4 conductor

**ELECTRONICS:** Environmentally sealed

**CONNECTORS:** Military grade with dual environmental seals

## FOUR CHANNEL TRACTOR / TRAILER EXAMPLE



### REPRESENTED BY: