

# The Vulcan V300 Series Electronics System

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

The Vulcan V300 Series Electronics System combines the most advanced electronics with user-friendly operation. The system works with existing Vulcan load cells and pressure sensors. The V300 is ideal for applications requiring up to four channels, and for operators who wish to mix tractors and trailers.



## KEY FEATURES:

- Compact size allows the meter to be mounted almost anywhere
- Uses the proven **VULCAN SINGLE LINE (VSL)** technology
- Unlimited mixing of trucks and trailers without any adjustment, just plug in and go
- Automatically identifies and adjusts for different truck/trailer configurations
- Select the two channel V320 or the four channel V340 meter depending on your application
- Adjustable cycle time (between channels)
- Red LEDs with 4 brightness settings for easy viewing
- Simple operation and calibration
- 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
- Works with Vulcan load cells, pressure sensors, and most competitors' load cells
- Complete system troubleshooting including individual load cell diagnostics
- Optional special purpose VSL Vulcoders include RF transmit Vulcoders, RF receive Vulcoders, and the VSL set point module

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



## V300 SERIES ELECTRONICS SYSTEMS

ON-BOARD ELECTRONICS  
FOR TRUCK AND TRAILER

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## V300 SERIES METER

### DESCRIPTION:

The Vulcan V300 Series meters display individual axle group weights (up to four channels) and the total weight. The meter display can be fixed on any single channel, group of channels, or automatically cycled through all active channels. Cycle times are user adjustable from 1 to 9 seconds. Diagnostic menu selections and an extensive set of help codes assists the user to quickly and easily identify and correct a problem if it occurs. New capabilities allow the meter to diagnose a problem with an individual load cell.

The V300 Series meter uses the new Vulcan Single Line (VSL) technology to minimize truck and trailer wiring for the best reliability. A V300 Series meter can immediately identify and read the weight from any other VSL equipped truck or trailer.

### SPECIFICATION:

**DISPLAY:** LED, variable brightness  
0.6" high characters

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

**SIZE:** 8.0" W x 1.25" D x 3.5" H (including mounting bracket)

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

**VOLTAGE REQUIRED:** 12 Vdc (10.5 to 15 Vdc)

**CURRENT DRAW:** Less than 1 amp

**PROTECTION:** Inline, 1 amp fast acting fuses and reverse voltage protection

**WEIGHT:** Less than 12 oz (including mounting bracket)

## VSL VULCODER

### DESCRIPTION:

The VSL Vulcoder receives the analog voltage signal from the load cells or pressure sensors. A microprocessor 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 V300 Series meter and be immediately identified and read properly.

### SPECIFICATION:

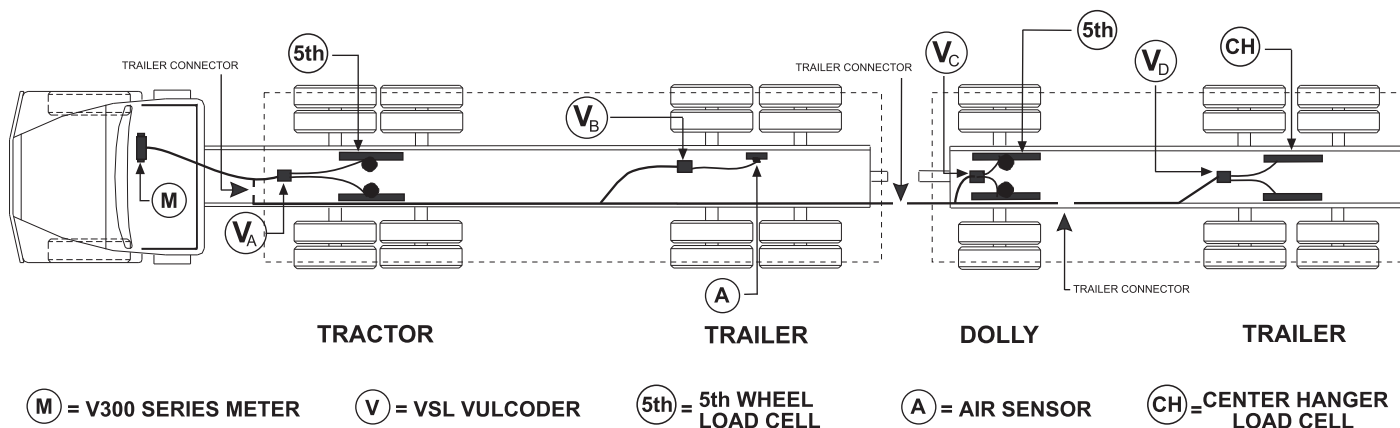
**SIZE:** 5.0" L x 2.5" W x 1.5" H (one and two lead vulcoders)

**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

## FOUR CHANNEL TRACTOR / TRAILER EXAMPLE



### REPRESENTED BY: