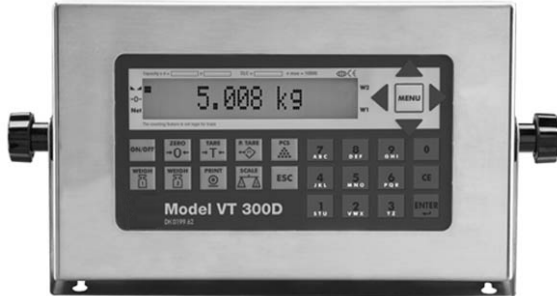


Weighbridge Indicator for Digital and Analog Load Cells



DESCRIPTION

The VT 300D is a powerful alphanumeric terminal, designed for digital and analog weighbridges, inventory control, and other demanding weighing applications.

The extended keyboard includes alphanumeric and functional keys for easy data entry and setup.

A 16-character dot-matrix LCD display supports the required user interface in complex industrial applications.

Using a weighing system that includes the VT300D together with Vishay digital load cells (DSC, SCC, SBC & MBD) enables very easy installation, calibration, corner compensation, maintenance and diagnostics of the system.

VT 300D software manages various transactions allowing choices of customer, material type, or truck identification. Records of all activities are maintained in memory and made available for computer reporting. Printable tickets and reports are easily formatted and edited.

The VT300D can support one digital load cells weighbridge and one analog load cell weighbridge at same time.

Enclosure selections include tilted, wall-mount, and desktop.

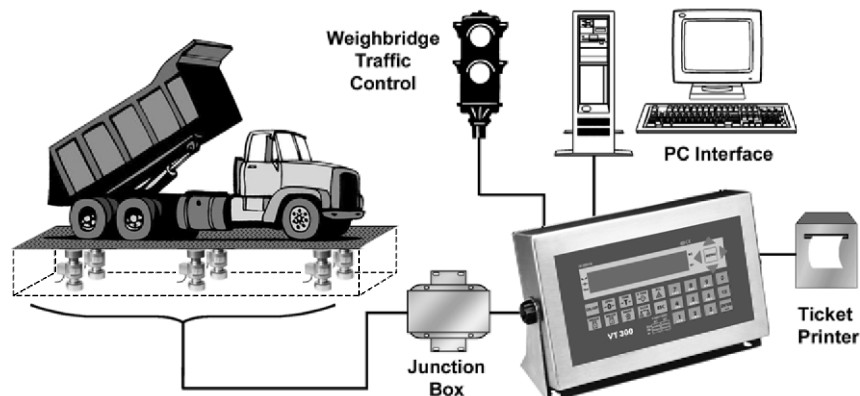
FEATURES

- Supports digital and analog load cells
- Easy calibration using the digital load cells
- Easy digital corner compensation
- Elaborated diagnostics of digital weighbridge load cells
- Easy service and maintenance
- Large, 16 character LCD display
- 27 key alphanumeric and functions keyboard
- Two serial ports with printing and networking
- Analog output for PLC interface (optional)
- Two opto-isolated weight setpoints
- Alibi (Flash) memory for transaction records
- Real time clock
- Stainless steel enclosure (IP65), aluminum enclosure (optional)
- Weighing and counting operating modes
- OIML R-76 approved to 10,000d
- Dual scale operation (one digital, one analog)
- 4 programmable ticket formats

APPLICATIONS

- Weighbridges
- Inventory control
- Industrial weighing systems
- Bench, floor, and counting scales

CONFIGURATION



SPECIFICATIONS

PERFORMANCE

Analog Load Cell Interface Performance:
 Resolution: selectable up to 990,000 dd
 Conversion Speed: 3 - 70 samples per second (selectable)
 Sensitivity: 0.4µV/Vsi for approved scales,
 0.1µV/Vsi for non-approved scales.
 Full Scale Range: -0.25 to 1.75mV/V or
 -0.25 to 3.75mV/V
 Linearity: 0.002% of full scale
 Long Term Stability: 0.005% of full scale per year
 Excitation: +5V alternating polarity or +5VDC
 (selectable), with sense (6 wires)
 Number of Cells: Up to 10, 350 ohm load cells
 Filter: FIR automatically adjusted to
 conversion speed, rolling average.
 Offset Drift: ≤2ppm/°C
 Span Drift: ≤2ppm/°C
 A/D Converter Type: Sigma-Delta, ratiometric, 550,000 internal
 counts
 Digital Load Cell Interface Performance:
 Resolution: selectable up to 990,000 dd
 Update Rate: 25 updates per second
 Supply to load cell: 14 - 18Vdc; 1.5A (Standard 15V)
 Number of Cells: up to 12
 Compatible Load Cells: DSC, SCC, SBC, MDBD
 General Performance:
 Count By: x1, x2, x5, x10, x50
 Decimal Point: between any digits of the weight display
 Calibration Methods: dead load and span, or data sheets
 calibration, via the mV/V output values of
 the load cell. Digital corner correction.
 Digital default calibration.
 Weighing Functions: automatic zero tracking, no motion
 detection, auto-zero on power-up, zero
 tare, preset tare, net mode, multiple test
 functions.
 Memory Allocation: calibration data EEPROM, flash tally-roll
 (Alibi) memory capable of 10,000 weight
 registrations, 250 records database
 (trucks). Stores the digital load cell
 performance and calibration data.

Piece Counting Mode
 Real-Time Clock

ENVIRONMENTAL

Operating Temp: -10°C to +40°C [14°F to 104°F]
 Storage Temp: -10°C to +70°C [-4°F to 158°F]
 Relative Humidity: 40-90% RH, non-condensing

DISPLAY AND KEYBOARD

Display: 16 character, LCD, backlit
 Digital Height: 14.5mm
 Status Enunciators: no motion, zero, tare in use, net, scale in
 operation (#1 or #2 or sum # 1+2, if second
 scale connected), piece counting mode
 Weight Digits: 4, 5 or 6 (setup selectable)
 Keyboard: pseudo-alphanumeric, 27 keys, with
 tactile feedback

ELECTRICAL

Voltage: 85 - 265VAC
 Current: 500mA

ISOLATED ANALOG OUTPUT (OPTIONAL)

Resolution: 16 bit DAC
 Voltage Output: 0.02-10V
 Current: 0-20mA or 4-20mA
 Linearity: 0.01% of full scale
 Thermal Stability: 50ppm /°C typical

INPUTS & OUTPUTS

(x1) Logic Input: 9-24VDC, negative common,
 opto-isolated to 2.5KV.
 (x2) Logic Output: 24VDC±10%, positive common, max
 current 100mA, opto-isolated to 2.5KV.

SERIAL COMMUNICATION

Serial Output #1: RS-232, non-programmable
 Baud Rate: 2400 baud, full duplex
 Applications: Printer output, Weight output.
 Serial Output #2: RS-485 setup programmable
 Baud Rate: 2400 - 57800 baud, half duplex
 Applications: EDP output, master-slave protocols,
 continuous output, remote printer and
 digital load cell communication.

ENCLOSURE

Stainless Steel Enclosure:
 Dimensions: 252x152x62mm LxHxD
 Mounting: wall and tilt mount
 Protection: IP65
 Wiring Connections: cable glands
 Aluminum Enclosure:
 Dimensions: 194x100x107mm LxHxD
 Mounting: desktop
 Protection: IP40
 Wiring Connections: D-sub connectors

APPROVALS (ACCURACY CLASS III)

OIML R-76: 10,000d single or dual interval
 EU-type approval no. DK0199.62

Vishay Transducers is continually seeking to improve product quality
 and performance. Specifications may change accordingly.

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