

Weighbridge Weight Indicator



FEATURES

- Specially designed as a weighbridge terminal
- Large, 16character LCD display
- 27 key alphanumeric and functions keyboard
- Up to two serial ports with printing and networking (one standard)
- Analog output for PLC interface (optional)
- Two opto-isolated weight setpoints
- Alibi (Flash) memory and programmable database of transaction records
- Real time clock
- Stainless steel enclosure (IP65), aluminum enclosure (optional)
- Weighing and counting operating modes
- Dual scale operation (optional)
- 4 programmable ticket formats

DESCRIPTION

The VT 300 is a powerful alphanumeric terminal, designed for 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.

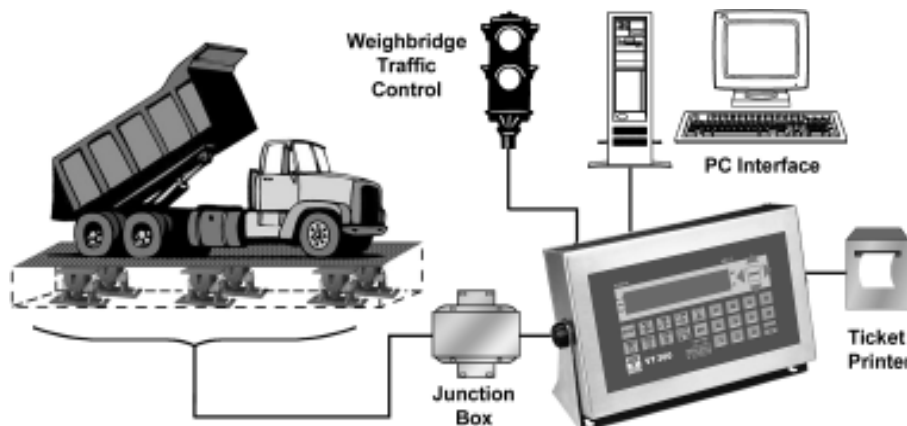
VT 300 software manages various transactions allowing choices of customer, material type, or truck identification. Documented records of all daily activities are maintained in memory and made available for computer reporting. Printable tickets and reports are easily formatted and edited.

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

APPLICATIONS

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

CONFIGURATION



ORDERING INFORMATION

Item Number	Description
IND-VT-300-000	LCD display, stainless steel housing, mains, one RS-232 ports
IND-VT-300-001	LCD display, stainless steel housing, mains,
IND-VT-300-011	LCD display, stainless steel housing, mains, two RS-232 ports, 2nd Analog Input Pcb ports.

VT 300

SPECIFICATIONS

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 2mV/V (-1.25mV to -10mV) or -0.25 to 4mV/V (-1.25mV to -20mV)
 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
 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. Calibration of two analog inputs (optional) with individual coefficients.
 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)
 Piece Counting Mode
 Real-Time Clock

ENVIRONMENTAL

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

DISPLAY AND KEYBOARD

Display: 16 character, LCD, backlit
 Digit height: 14.5mm (0.57 in.)
 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 – 265 VAC
 Current: 500mA
 Battery Operation (Option): internal rechargeable battery, 6V/3Ah (aluminum version only)

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: 9-24 Vdc, positive common, opto-isolated to 2.5KV.
 (x2) Logic Output: 24 Vdc ± 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:(optional) RS-232 or RS-485 setup programmable
 Baud Rate: 2400 -57800 baud, half duplex
 Applications: EDP output, master-slave protocols, continuous output, remote printer.

ENCLOSURE

Stainless Steel Enclosure:
 Dimensions: 252x152x62 mm LxHxD (10x6x2.5 in. LxHxD)
 Mounting: wall and tilt mount
 Protection: IP65
 Wiring Connections: cable glands
 Aluminum Enclosure:
 Dimensions: 194x100x107 mm LxHxD (7.64x3.94x4.21 in. LxHxD)
 Mounting: wall and tilt mount
 Protection: IP40
 Wiring Connections: cable glands