

## Weighbridge Weight Indicator



### FEATURES

- Specially designed as a weighbridge terminal
- Large, 16 character 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
- OIML R-76 and NTEP approved to 10,000d
- 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.

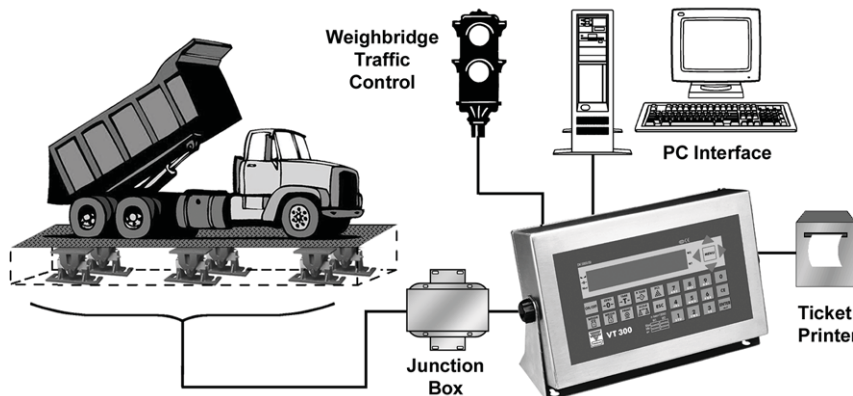
VT 300 software manages various transactions allowing choices of customer, material type, or truck identification. Documented records of all daily activities are maintained in memory and made available for computer reporting. Printable tickets and reports are easily formatted and edited.

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
VT300-2100176	LCD display, aluminum housing, mains, RS-232 port, RS-485 port
VT300-2101055	LCD display, aluminum housing, mains, RS-232 port
VT300-2100672	LCD display, aluminum housing, rechargeable battery, RS-232 port, RS-485 port
VT300-2101031	LCD display, stainless steel housing, mains, two RS-232 ports
VT300-2100175	LCD display, stainless steel housing, mains, RS-232 port, RS-485 port



### SPECIFICATIONS

#### PERFORMANCE

Resolution: selectable up to 990,000 dd  
 Conversion Speed: 3 - 70 samples per second (selectable)  
 Sensitivity: 0.4 $\mu$ V/Vsi for approved scales,  
 0.1 $\mu$ V/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:  $\leq$ 2ppm/ $^{\circ}$ C  
 Span Drift:  $\leq$ 2ppm/ $^{\circ}$ 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 $^{\circ}$ C to +40 $^{\circ}$ C [14 $^{\circ}$ F to 104 $^{\circ}$ F]  
 Storage Temp: -10 $^{\circ}$ C to +70 $^{\circ}$ C [-4 $^{\circ}$ F to 158 $^{\circ}$ F]  
 Relative Humidity: 40-90% RH, non-condensing

#### DISPLAY and KEYBOARD

Display: 16 character, LCD, backlight  
 Digital Height: 14.5mm [0.57in.]  
 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  
 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/ $^{\circ}$ C typical

#### INPUTS & OUTPUTS

(x1) Logic Input: 9-24VDC, positive common,  
 opto-isolated to 2.5KV.  
 (x2) Logic Output: 24VDC $\pm$ 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: 252x152x62mm LxHxD  
 [10x6x2.5in. LxHxD]  
 wall and tilt mount  
 Mounting:  
 Protection: IP65  
 Wiring Connections: cable glands  
 Aluminum Enclosure:  
 Dimensions: 194x100x107mm LxHxD  
 [7.64x3.94x4.21in. LxHxD]  
 wall and tilt mount  
 Mounting:  
 Protection: IP40  
 Wiring Connections: cable glands

#### APPROVALS (ACCURACY CLASS III)

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

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### VISHAY TRANSDUCERS (VT) SALES OFFICES

**VT Americas**  
 City of Industry, CA  
 PH: +1-626-858-8899  
 FAX: +1-626-332-3418  
 vt.us@vishaymg.com

**VT Netherlands**  
 Breda  
 PH: +31-76-548-0700  
 FAX: +31-76-541-2854  
 vt.nl@vishaymg.com

**VMG UK**  
 Basingstoke  
 PH: +44-125-646-2131  
 FAX: +44-125-647-1441  
 vt.uk@vishaymg.com

**VMG Israel**  
 Netanya  
 PH: +972-9-863-8888  
 FAX: +972-9-863-8800  
 vt.il@vishaymg.com

**VMG Germany**  
 Heilbronn  
 PH: +49-7131-3901-260  
 FAX: +49-7131-3901-2666  
 vt.de@vishaymg.com

**VT China**  
 Tianjin  
 PH: +86-22-2835-3503  
 FAX: +86-22-2835-7261  
 vt.prc@vishaymg.com

**VMG France**  
 Chartres  
 PH: +33-2-37-33-31-20  
 FAX: +33-2-37-33-31-29  
 vt.fr@vishaymg.com

**VT Taiwan\***  
 Taipei  
 PH: +886-2-2696-0168  
 FAX: +886-2-2696-4965  
 vt.roc@vishaymg.com  
 \*Asia except China



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