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 alpha-numeric 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.

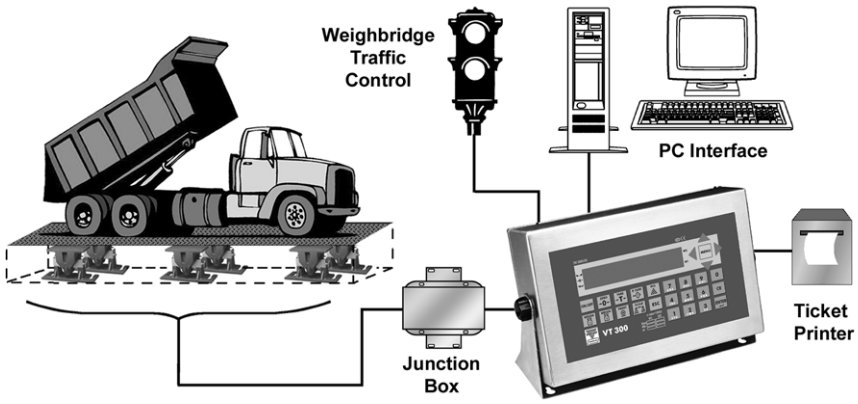
VT 300 software manages various transactions allowing choices of customer, material type, or truck identification. Documented records of all daily activities are maintained in memory and made available for computer reporting. Printable tickets and reports are easily formatted and edited.

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:	0.4µV/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°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 [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 /°C typical

INPUTS & OUTPUTS

(x1) Logic Input:	9-24VDC, positive 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 (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]
Mounting:	wall and tilt mount
Protection:	IP65
Wiring Connections:	cable glands

Aluminum Enclosure:

Dimensions:	194x100x107mm LxHxD [7.64x3.94x4.21in. LxHxD]
Mounting:	wall and tilt mount
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# .....

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

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