Model VT 300

Revere

VISHAY PRECISION GROUP

Weighbridge Weight Indicator

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.

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 10000d
- Dual scale operation (optional)
- 4 programmable ticket formats

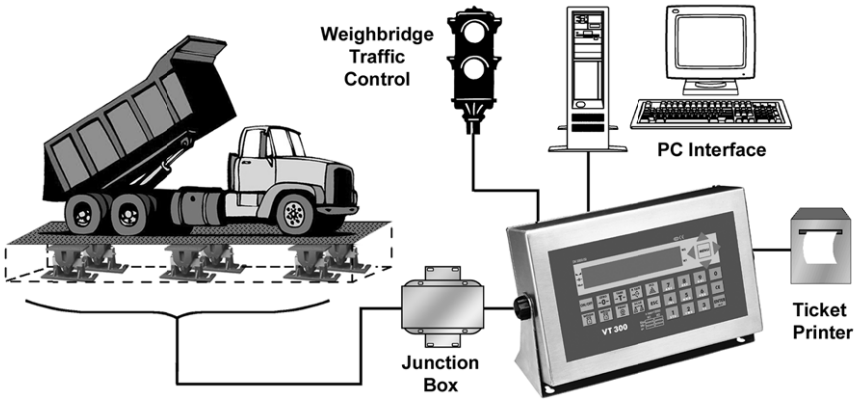
APPLICATIONS

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

OPTIONS

- Aluminum enclosure
- Stainless steel enclosure
- UL/TUV/UK/China/Japan plug
- Second RS-232 port
- RS-485 port
- Analog input
- Analog output
- Battery (for aluminum only)

CONFIGURATION



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SPECIFICATIONS

PERFORMANCE

Resolution:	selectable up to 990000 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 [-1.25mV to 8.75mV] or -0.25 to 3.75mV/V [-1.25mV to 18.75mV]
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, 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 (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:	desktop
Protection:	IP40
Wiring Connections:	D-sub connectors

APPROVALS (ACCURACY CLASS III)

OIML R-76:	10000d single or dual interval EU-type approval no. DK0199.62
NTEP:	10000d single or dual interval NTEP CC# .....

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