Weight Indicator

FEATURES

- Large 6 digit LED (VT200) or LCD (VT220) display
- Built-in weighing and counting modes
- Two opto-isolated setpoints
- Alibi (Flash) memory retains last 10000 transactions
- Dual scale operation (optional)
- Two serial ports for printing and networking (one standard)
- Analog output (option)
- Stainless steel enclosure (IP65), aluminum enclosure (option)
- Programmable ticket format
- High sample rate - up to 70 conversions per second
- OIML R-76 and NTEP approved to 10000d
- Battery operation (optional with aluminum enclosure)
- Real time clock (option)

DESCRIPTION

VT200/VT220 units are versatile, general purpose weight indicators, with a wide range of industrial and commercial applications.

The eight key panel enables easy operation, calibration, and setup of the instru- ment. An integral printer interface allows easy, programmable, ticket formatting. Automatic date and time storage with the real-time clock option clearly documents all printout records

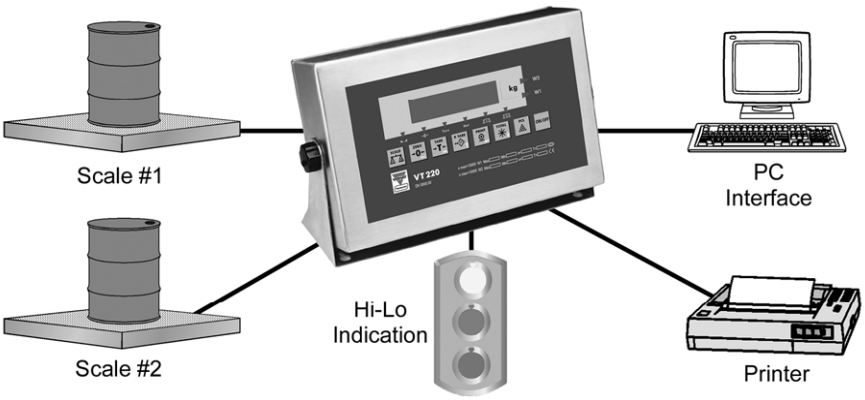
The VT220 with the LCD display includes internal rechargeable battery option for stand-alone autonomous operation.

Enclosure selections include tilted, wallmount, and desktop arrangements.

APPLICATIONS

- Bench and floor scales
- Counting scales
- Inventory control
- Various industrial weighing systems

CONFIGURATION



OPTIONS

- Aluminum enclosure
- Stainless steel enclosure
- UL/TUV/UK power adapter
- LED/LCD display
- Analog input
- Analog output
- Second RS-232 port
- RS-485 port
- Real time clock
- Battery (for aluminum only)

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 -10mV] or -0.25 to 3.75mV/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
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, 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
Piece Counting Mode	
Real-Time Clock (optional)	

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:	6 digit, 7 segment, LED or LCD
Digit Height:	20mm (VT200), 16mm (VT220)
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:	8 key membrane keyboard, with tactile feedback

ELECTRICAL

Voltage:	85 - 265VAC 9 - 15VDC via external power adapter
Current:	500mA
Battery Operation (Option):	Internal rechargeable battery (VT220) Aluminum version only

ISOLATED ANALOG OUTPUT (OPTIONAL)

Resolution:	16 bit DAC
Voltage Output:	0.02-10V
Current:	0-20mA or 4-20mA
Linearity	0.002% of full scale
Offset Drift:	≤2ppm/°C

INPUT & 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:	continuous, print (on demand), alibi print
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

Aluminium Enclosure:

Dimensions:	194x100x107mm LxHxD [7.64x3.94x4.21in. LxHxD]
Mounting:	Wall and tilt mount
Protection:	IP40
Wiring Connections:	Cable glands

APPROVALS (ACCURACY CLASS III / IIIL)

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