

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 10,000 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 10,000d
- 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 instrument. 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

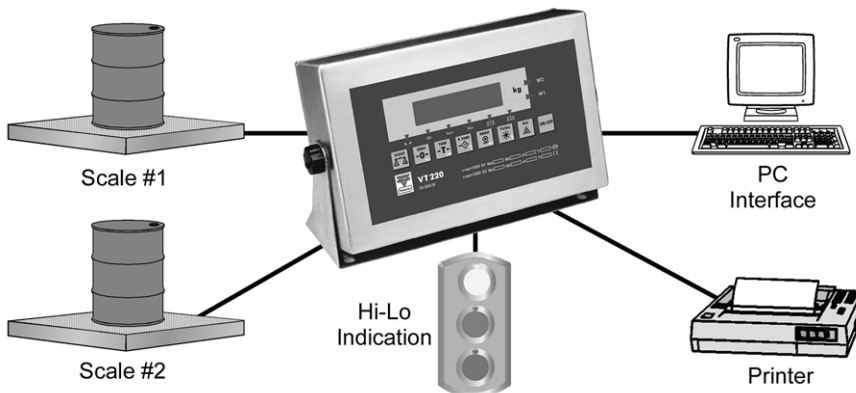
The VT220 with the LCD display includes internal rechargeable battery option for stand-alone autonomous operation.

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

APPLICATIONS

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

CONFIGURATION



ORDERING INFORMATION

Item Number	Description*
VT200-2100170	LED display, aluminum housing, mains, one RS-232 port
VT200-2100121	LED display, stainless steel housing, mains, one RS-232 port
VT220-2100173	LCD display, aluminum housing, rechargeable battery, one RS-232 port
VT220-2100172	LCD display, stainless steel housing, mains, one RS-232 port

* for more ports and other options, consult the nearest VT Sales Office



SPECIFICATIONS

PERFORMANCE

Resolution: selectable up to 990,000 dd
 Conversion Speed: 3 - 70 samples per second (selectable)
 Sensitivity: 0.4 μ V/Vsi for approved scales,
 0.1 μ 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
 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

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: 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)

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: \leq 2ppm/ $^{\circ}$ C

INPUT & 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: 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: 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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