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

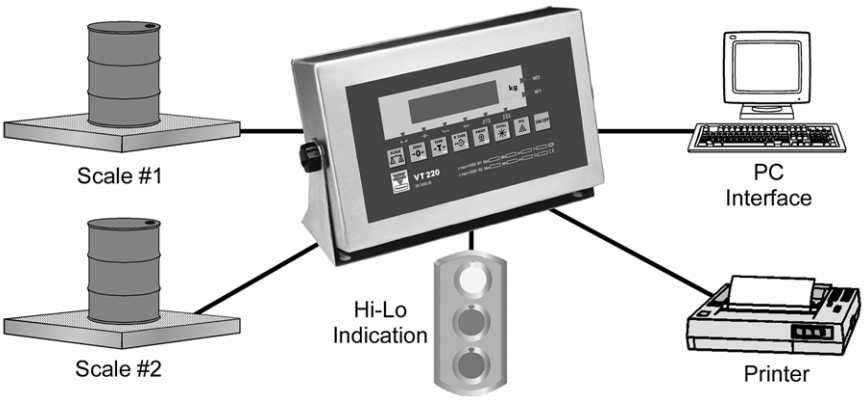
The VT220 with the LCD display includes internal rechargeable battery option for stand-alone autonomous operation.

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:	0.4µV/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
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°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)

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:	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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