

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 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

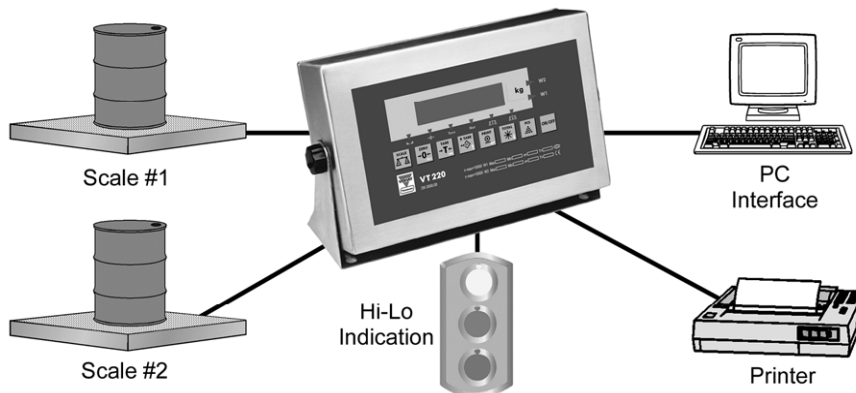
The VT220 with the LCD display includes internal rechargeable battery option for stand-alone autonomous operation.

Enclosure selections include tilted, 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: 0.4 μ V/Vsi for approved scales,
0.1 μ V/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: \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 (optional)

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)
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: \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: 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.

VISHAY TRANSDUCERS (VT) SALES OFFICES

VT Americas
City of Industry, CA
PH: +1-626-858-8899
FAX: +1-626-332-3418
vt.us@vishaymg.com

VT Netherlands
Breda
PH: +31-76-548-0700
FAX: +31-76-541-2854
vt.nl@vishaymg.com

VMG UK
Basingstoke
PH: +44-125-646-2131
FAX: +44-125-647-1441
vt.uk@vishaymg.com

VMG Israel
Netanya
PH: +972-9-863-8888
FAX: +972-9-863-8800
vt.il@vishaymg.com

VMG Germany
Heilbronn
PH: +49-7131-3901-260
FAX: +49-7131-3901-2666
vt.de@vishaymg.com

VT China
Tianjin
PH: +86-22-2835-3503
FAX: +86-22-2835-7261
vt.prc@vishaymg.com

VMG France
Chartres
PH: +33-2-37-33-31-20
FAX: +33-2-37-33-31-29
vt.fr@vishaymg.com

VT Taiwan*
Taipei
PH: +886-2-2696-0168
FAX: +886-2-2696-4965
vt.roc@vishaymg.com
*Asia except China



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.