Model VT 200/220

Revere

VPG force sensors
Celtron • Revere • Sensortronics • Tedea-Huntleigh

Weight Indicator

FEATURES

- Large 6 digit LED (VT 200) or LCD (VT 220) display
- Built-in weighing and counting modes
- Two opto-isolated setpoints
- Alibi (Flash) memory retains the last 10,000 transactions
- Two serial ports for printing and networking (one standard)
- Stainless steel enclosure (IP65), aluminum enclosure (IP40)
- Programmable ticket format
- High sample rate—up to 228 conversions per second
- OIML R-76 approved to 10000d
- Battery operation (optional with aluminum enclosure)
- **Optional**
  - Aluminum enclosure
  - Stainless steel enclosure
  - Dual scale operation
  - 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 versions only)
  - USB slave port (for aluminum versions only)



OIML

APPLICATIONS

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

DESCRIPTION

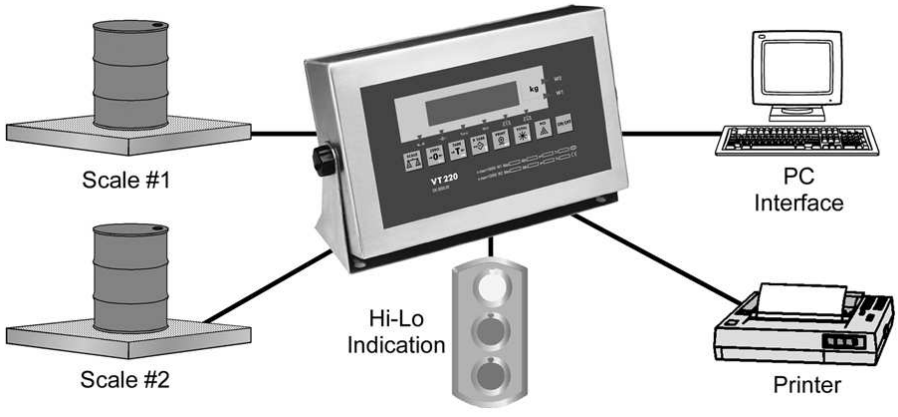
The Model VT 200 / VT 220 units are versatile, general purpose weight indicators, with a wide range of industrial and commercial applications.

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 a real-time clock option clearly documents all printout records.

The VT 220 with the LCD display includes an internal rechargeable battery option for stand-alone autonomous operation.

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

CONFIGURATION



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Weight Indicator

SPECIFICATIONS

PERFORMANCE

Resolution
Selectable up to 990000 dd

Conversion Speed
3–228 samples per second (selectable)

Sensitivity
0.25 µV/Vsi for approved scales,
0.1 µV/Vsi for non-approved scales

Full Scale Range
–0.25 to 1.75 mV/V [–1.25 mV to 8.75 mV] or
–0.25 to 3.75 mV/V [–1.25 mV to 18.75 mV]

Linearity
0.002% of full scale

Long-Term Stability
0.005% of full scale per year

Excitation
+5V alternating polarity or +5 VDC (selectable), with sense (6 wires)

Number of Cells
Up to 10; 350Ω load cells

Filter
FIR automatically adjusted to conversion speed, rolling average

Offset Drift
≤2 ppm/°C

Span Drift
≤2 ppm/°C

A/D Converter Type
Sigma-Delta, ratiometric

Count By
x1, x2, x5, x10, x50, x100, x200

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 Temperature
–10°C to +40°C [14°F to 104°F]

Storage Temperature
–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
20 mm (VT 200), 16 mm (VT 220)

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
85–265 VAC

Current
500 mA

Battery Operation (Optional)
Internal rechargeable battery (VT 220)
Aluminum version only

ISOLATED ANALOG OUTPUT (OPTIONAL)

Resolution
16 bit DAC

Voltage Output
0.02–10V

Current
0–20 mA or 4–20 mA

Linearity
0.002% of full scale

Offset Drift
≤2 ppm/°C

INPUT AND OUTPUTS

(x1) Logic Input
9-24 VDC, negative common, opto-isolated to 2.5 kV

(x2) Logic Output
24 VDC ±10%, positive common, max current 100 mA, opto-isolated to 2.5 kV

SERIAL COMMUNICATION

Serial Output #1
RS-232C Full duplex, programmable

Baud Rate
1200-9600 baud , full duplex

Applications
Continuous, print (on demand), alibi print

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Weight Indicator

Serial Output #2 (Optional)
RS-232, RS-485 or slave USB (Aluminum only) setup programmable

Modbus ASCII

Baud Rate
2400-115200 baud, half duplex

Applications
EDP output, master-slave protocols, continuous output, remote printer

ENCLOSURES

Stainless Steel Enclosure

Dimensions
252 x 152 x 62 mm L x H x D
[10 x 6 x 2.5 in. L x H x D]

Mounting
Wall and tilt mount

Protection
IP65

Wiring Connections
Cable glands

Aluminium Enclosure

Dimensions
194 x 100 x 107 mm L x H x D
[7.64 x 3.94 x 4.21 in. L x H x D]

Mounting
Desktop

Protection
IP40

Wiring Connections
D-sub connectors

APPROVALS (ACCURACY CLASS III / IIIL)

OIML R-76
10000d single or dual interval
EU-type approval no. 0200-NAWI-03996

VPG Force Sensors is continually seeking to improve product quality and performance. Specifications may change accordingly.

Technical contact: vpgfs.americas@vpgsensors.com,
vpgfs.asia@vpgsensors.com, vpgfs.emea@vpgsensors.com

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