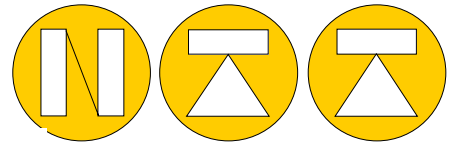


VT200/220 Weighing Indicators



NORDIC TRANSDUCER



VT200
with **LED** display

VT220
with **LCD** display

VT200/220

- ❑ EU approved to 10.000 e.
- ❑ Danish test DK 0199.27 Class III
- ❑ Up to 70 measurements sec.
- ❑ Alibi memory for 10.000 operations
- ❑ Multi cell technology
- ❑ Can supply up to 10 x 350 ohm load cells.
- ❑ VT200 20mm LED display with 5 digit.
- ❑ VT220 16mm LCD display with 5 digit.
- ❑ Tactile 8 keys keyboard (On/Of)
- ❑ Single or dual interval
- ❑ Analog and digital filter.
- ❑ 2 set point output.
- ❑ Counting function.
- ❑ RS232 for printer and 2end for PC.
- ❑ Totalizing
- ❑ Display of total and number of weighings.
- ❑ Analog and digital filter.
- ❑ Stainless steel cabinet (IP65)

OPTIONS

Input for 1 more set of load cells
RS485 multidrop.
Analog 0/4-20mA - 0-10VDC output
Rechargeable battery (VT220)
Aluminum cabinet

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.

Operating Functions:

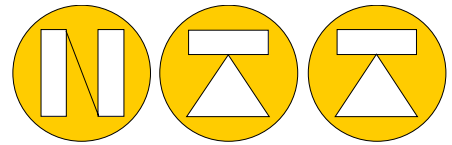
- ✓ 5 digit display with indication of; NET, ZERO, MOTION and Minus, piece count sign.
- ✓ Tare key. Sets / reset indicator to Net display mode
- ✓ Print key. Initiates printout and adds to total.
- ✓ Total key. Display total and number of weighings.
- ✓ Piece counting key. Activates the piece counting function.
- ✓ Scale exchange key. Switches the display to the scale connected to analog input #1 or to analog input #2 (optional)



All types of NTT load cells can be used together with VT 200/220 instruments !.



SPECIFICATIONS VT200 / VT220



NORDIC TRANSDUCER

EU TYPE APPROVAL
ACCURACY CLASS

10.000 divisions, DK 019927
III

DISPLAY - KEYBOARD

| | |
|-----------------------|--|
| DISPLAY | 6 digit, 7 segment, LED red (20mm) or LCD Display (16mm) |
| STATUS ANNUNCIATORS | Motion, net, minus sign, zero |
| KEYBOARD | 8 key membrane, with tactile feedback |
| DECIMAL POINT | Between any digit of the display |
| WEIGHT DISPLAY DIGITS | 5 |

A/D CONVERTER

| | |
|-----------------------|--|
| A/D CONVERTER TYPE | Sigma-delta ratiometric with integral analogue and digital filters |
| CONVERSION RATE | 5- 70 measurements per second (set-up selectable) |
| MINIMUM INPUT PER VSI | 0.4µV/d <i>legal for trade</i> , 0.1µV/d non approved |
| ANALOGUE INPUT RANGE | -0.25 to 4mVN for each load cell (-1 ,25mV -20mV) |
| RESOLUTION | Internal: 550.000 counts Display: 100.000 per mV/V input |

SCALE CALIBRATION &FUNCTIONS

| | |
|---------------------|---|
| CALIBRATION | Full digital menu driven. The weight display may be set to any capacity and resolution with 6 digits (subject to application and regulations), Two analogue inputs with individual calibration coefficients |
| DISPLAY STEP | 1, 2, 5, 10, 20, 50 |
| DIGITAL CALIBRATION | Deadload and Span measurement via keyboard dialogue menu. No interaction between dead load and span |
| WEIGHING FUNCTIONS | Auto zero maintenance, motion detection, auto-zero on power up, zero, tare, gross, test |
| FULL SCALE RANGE | The two most significant decades of the digital display are program mable from 1 to 99 for the full scale range, Single or dual interval |
| MEMORIES | Serial EEPROM calibration memory & Flash electronic tally-roll (Alibi) memory |
| SET-POINTS | Two Set-points |

LINEARITY & STABILITY

| | |
|---------------------------|---|
| LINEARITY | Within 0,002 % |
| LONG TERM STABILITY | <0,002 % per year |
| TEMPERATURE- COEFFICIENTS | Zero <2ppm /°C (chopped mode), Span <2ppm /°C |

LOAD CELLS

| | |
|----------------------|-------------------------------|
| NUMBER OF LOAD CELLS | Up to 10 x 350 ohm load cells |
| EXCITATION | 5V DC/ 150mA |
| CONNECTION | 6 wire |

COMMUNICATION

| | |
|---------------------|--|
| PORT #1 | RS232C 1200 baud |
| PORT #2 (optional) | RS485A Multidrop with Networking Address, 2400 to 57600 baud Baudrate, data bits, parity and data output are programmable (Printer output, weigh output, protocol output, network connection) |

POWER

220VAC / no outside adapter
9-12V DC/500mA can be used by disconnecting main supply

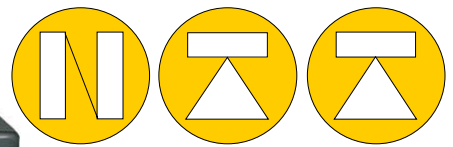
ENVIRONMENT/ENCLOSURE

| | |
|-----------------|-----------------------------|
| EMC | EN 45501 requirements |
| OPERATING TEMP. | -10°C to +40°C |
| STORAGE TEMP. | -20°C to + 70°C |
| HUMIDITY | 90% RH max. non condensing |
| ENCLOSURE | Stainless Steel, 253x153x60 |

OPTIONS

| | |
|--------------------------|---|
| BATTERY OPERATION LD5206 | 100 hours for one 350 ohm load cell connected |
| LOAD CELL PROTECTION | For Weighbridge Applications |

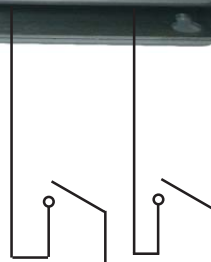
We reserve the right to modify above specifications without prior notice



NORDIC TRANSDUCER



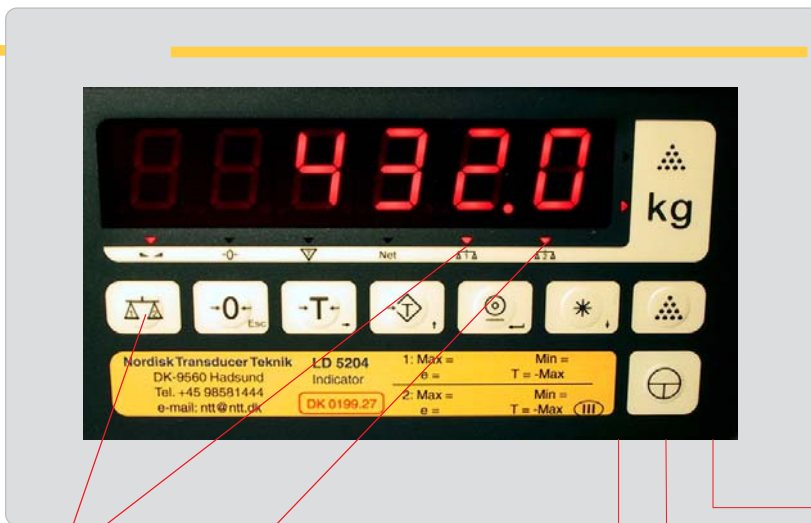
- ✓ One set load cells with up to 10 x 350Ohm cells, it can also be sat up to 2 weighing ranges
- ✓ 500.000 internal counts, EU approved to 10.000 d



- ✓ 2 set of set-points with OC outputs, 24VDC external supply



- ✓ Printer output with software for setting up the label to be printet.



- ✓ 2 sets of load cells where it is possible to shift between the 2, if they do have the same number of digits and increment then the sum of these 2 sets can be indicated as shown here.

- ✓ RS232 PC communication with up to 57600 baud and master slave protocol, download of label is also an option included in this.



- ✓ RS485 max. 57600 baud, master slave.

- ✓ 4-20mA



Typical for PLC kommunikation
 ✓ Analog output D/A = 65.000
 0/4-20mA or 0-10Volt
 Eksternal 24V supply.

