



21<sup>e</sup> is built to answer the needs of highly demanding applications in the aspect of transaction & data speed, number of peripheral connection, management data & security, flexibility of operation and flexibility of future expansion.

Maximum AD conversion speed up to 480 times per second plus 9 filter strength levels to meet almost all requirements from high-resolution static weighing to high-speed dynamic applications.

User definable PC output protocol means unsurpassed capability to meet all data format requirements from remote displays, production management to ERP systems.

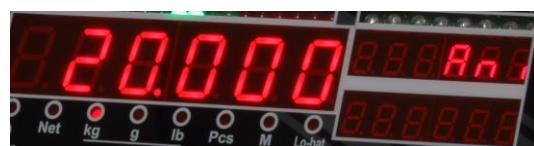
Built-in non-resettable memory to store all details of up to 130,000+ transactions. Daily, monthly and specific period reports can be recalled and generated anytime according to your search criteria.

## Independently Configurable Function Modes

- Static & Dynamic Weighing
- Piece Counting
- Action-Tare-Memory (ATM)
- Peak Measuring
- Grading and Sorting up to 10 Set Points and 8 Grades
- Checking Function for Weighing, Piece Counting, ATM, Grading, and Sorting Function

## Displays and Indications

- 1 Primary plus 2 Secondary Displays provide Clear Information about Results, Settings, and Next Target Value of the Current Operation
- Tri-Color Check Result Light Bars Present Pin-Point Accuracy about where and how far the Current Weight is and away from the Target Value
- Zero, Net, Weight Unit, Memory, Lo Battery, Relay Output and Charge Status Indicators



***Versatility, Functionality and Accuracy are always Built-in***

# 21e Configurable Indicator

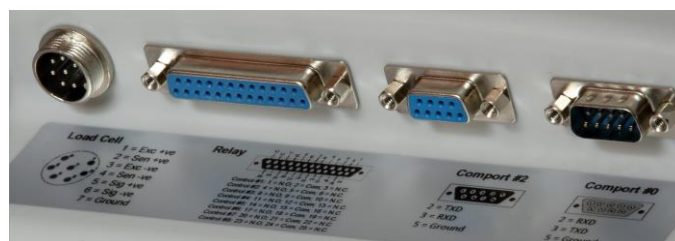
## Built-In Control Logic

- Static and Dynamic Check
- Inflow and Outflow Control
- Constant Feeding
- Constant Dispensing with Auto Refilling,
- Dual Speed Filling
- Batching up to 8 Ingredients
- Dual Speed Discharge
- Discharge and Refill
- User Programmable Logic for each and individual Relay Output



## Connectivity

- Maximum 4 independent configurable comports.  
Maximum Baud Rate = 921600
  - Hardwire Connection Types (standard) include RS232, RS485 and TTL
  - Wireless Communication Types (optional) include Bluetooth 2.0 /4.0 and WIFI
- Optional isolated RS232 to Ensure High Speed Data Communication even in a High Interference Environment
- Optional Built-in 8-Channel Control Relay Board.



## Operation Features

- Primary and Secondary Displays: -
  - Display #1: - 6 x 25mm LED Numeric Digits
  - Display #2: - 6 x 10mm LED Numeric Digits
  - Display #3: - 6 x 10mm LED Numeric Digits
- Support Single Range, Dual Range and Dual Interval Operation
- Support both Tension and Compression Load / Force Direction
- Near Zero Weight Value for Dynamic Weighing to avoid False Signal Output
- Repetitive and Continuous Tare Operation
- Continuous Tare with Configurable Delay Time before Tare Action
- Real Time Clock with Backup Battery
- Watchdog System to Prevent Damages Caused by Load Cell Short-circuit.
- Configurable Tri-Color Check Result Light Bar
- Configurable Keypad, Check & System Buzzer

***Versatility, Functionality and Accuracy are always Built-in***

# 21e Configurable Indicator

## Management Features

- 130000+ Non-Resettable Transaction Memory
- Daily, Monthly, specific Period Report Output
- Multi Search Criteria for Report Generation
- Configurable Machine ID, Machine Group and Operator Number to Enhance Ease of Multi-Scales Applications and Management Records
- Customer & Product Code Input through Serial Scanner, Keypad or Barcode Reader
- Customer & Product Code Support Numbers, Alphabets and Selected Symbols
- Quick Access PLUs for Weight Limits, Quantity Limits and Preset Tare Values
- Direct PLUs for Customer & Product Codes
- Check Result Control for Accumulation, Data Printout & Data Output
- Keypad Lock Function
- Support Inquiry, Setting and Execution Commands from PC
- All Current Operation Results Output in Data Base Format Increases Ease & Efficiency of Data Management, Processing & Analysis
- Support Ticket Printer and Label Printer (Datecs LP-50 & TSC TDP-225, TDP-247, TDP-345, TTP-225, TTP-247, TTP-345)
- Selectable Portrait / Landscape Ticket Printout Format
- 10 x Built-in Predefined Continuous / Internal Output Protocol
- User Programmable Continuous / Internal Output Protocol

## Data Base Output Format

|             | Opr  | Seq | Mode | Mac  | MacGp | Date      | Time     | Name             | Pcode              | Gross  | Tare  | Net    | Low     | High   | Result     | Total.W | Unit |       |       |            |         |
|-------------|------|-----|------|------|-------|-----------|----------|------------------|--------------------|--------|-------|--------|---------|--------|------------|---------|------|-------|-------|------------|---------|
| Weighing    | 3333 | 1   | 0    | 8888 | 77    | 2016/10/6 | 11:17:08 | VNFHRUDHFLQAUMCB | 12345678901234567A | 12.500 | 5.000 | 7.500  | 4.995   | 5.005  | AboveLimit | 7.50    | kg   |       |       |            |         |
| Weighing    | 3333 | 2   | 0    | 8888 | 77    | 2016/10/6 | 11:17:14 | VNFHRUDHFLQAUMCB | 12345678901234567A | 15.000 | 2.500 | 12.500 | 4.995   | 5.005  | AboveLimit | 20.00   | kg   |       |       |            |         |
| Weighing    | 3333 | 3   | 0    | 8888 | 77    | 2016/10/6 | 11:17:22 | VNFHRUDHFLQAUMCB | 12345678901234567A | 15.000 | 5.000 | 10.000 | 4.995   | 5.005  | AboveLimit | 30.00   | kg   |       |       |            |         |
| Weighing    | 3333 | 4   | 0    | 8888 | 77    | 2016/10/6 | 11:17:29 | VNFHRUDHFLQAUMCB | 12345678901234567A | 10.000 | 5.000 | 5.000  | 4.995   | 5.005  | Accept     | 35.00   | kg   |       |       |            |         |
| Weighing    | 3333 | 5   | 0    | 8888 | 77    | 2016/10/6 | 11:17:46 | VNFHRUDHFLQAUMCB | 12345678901234567A | 7.500  | 2.500 | 5.000  | 9.995   | 10.005 | BelowLimit | 40.00   | kg   |       |       |            |         |
| Weighing    | 3333 | 6   | 0    | 8888 | 77    | 2016/10/6 | 11:17:50 | VNFHRUDHFLQAUMCB | 12345678901234567A | 5.000  | 2.500 | 2.500  | 9.995   | 10.005 | BelowLimit | 42.50   | kg   |       |       |            |         |
|             | Opr  | Seq | Mode | Mac  | MacGp | Date      | Time     | Name             | Pcode              | Gross  | Tare  | Net    | Total.W | Unit   | Count      | Unit.W  | Unit | Low   | High  | Result     | Total.C |
| Piece Count | 3333 | 1   | 1    | 8888 | 77    | 2016/10/6 | 11:18:18 | VNFHRUDHFLQAUMCB | 12345678901234567A | 5.000  | 2.500 | 2.500  | 2.500   | kg     | 19999      | 0.12499 | g    | 19995 | 20005 | Accept     | 19999   |
| Piece Count | 3333 | 2   | 1    | 8888 | 77    | 2016/10/6 | 11:18:25 | VNFHRUDHFLQAUMCB | 12345678901234567A | 7.500  | 2.500 | 5.000  | 7.500   | kg     | 40002      | 0.12499 | g    | 19995 | 20005 | AboveLimit | 60001   |
| Piece Count | 3333 | 3   | 1    | 8888 | 77    | 2016/10/6 | 11:18:31 | VNFHRUDHFLQAUMCB | 12345678901234567A | 7.500  | 5.000 | 2.500  | 10.000  | kg     | 20003      | 0.12499 | g    | 19995 | 20005 | Accept     | 80004   |
| Piece Count | 3333 | 4   | 1    | 8888 | 77    | 2016/10/6 | 11:18:37 | VNFHRUDHFLQAUMCB | 12345678901234567A | 7.500  | 5.000 | 2.500  | 12.500  | kg     | 20003      | 0.12499 | g    | 19995 | 20005 | Accept     | 100007  |
| Piece Count | 3333 | 5   | 1    | 8888 | 77    | 2016/10/6 | 11:18:43 | VNFHRUDHFLQAUMCB | 12345678901234567A | 5.000  | 2.500 | 2.500  | 15.000  | kg     | 19999      | 0.12499 | g    | 19995 | 20005 | Accept     | 120006  |
| Piece Count | 3333 | 6   | 1    | 8888 | 77    | 2016/10/6 | 11:18:47 | VNFHRUDHFLQAUMCB | 12345678901234567A | 7.500  | 2.500 | 5.000  | 20.000  | kg     | 40002      | 0.12499 | g    | 19995 | 20005 | AboveLimit | 160008  |

Database Output Content Illustration: - Weighing and Piece Count Mode

## Printout Formats

|   |  |  |
|---|--|--|
| Time 14:03:25<br>Date 2017-02-27<br>Seq 1<br>Name ASDFGHJKLQWERTYUIO<br>Pcode 123456789012345678<br>Net 15.000kg<br>Tare 0.000kg<br>Gross 15.000kg<br>Total 15.000kg<br><br>High 15.001kg<br>Low 14.999kg<br>Accept | Name ASDFGHJKLQWERTYUIO<br>Pcode 123456789012345678<br>Opr 0123<br>Mac 6666<br>MacGp 22<br><br>Date 2017-02-27<br>Time 13:58:54<br><br>Seq Gross Net<br>001 5.000 5.000 kg<br>002 5.000 5.000 kg<br>003 5.000 5.000 kg<br>004 10.000 10.000 kg<br>005 10.000 10.000 kg<br>006 10.000 10.000 kg<br><br>006 45.000 kg<br><br>Max 10.000 kg<br>Min 5.000 kg<br>Diff 5.000 kg<br>x 7.5000 kg<br>Sd 2.7386 kg<br>Srel 36.5147 % | Name ASDFGHJKLQWERTYUIO<br>Pcode 123456789012345678<br>Opr 0123<br>Mac 6666<br>MacGp 22<br><br>Date 2017-02-27<br><br>Seq Time Net<br>001 14:00:17 4.999 kg<br>002 14:00:20 4.999 kg<br>003 14:00:23 4.999 kg<br>004 14:00:27 4.999 kg<br>005 14:00:30 4.999 kg<br>006 14:00:33 4.999 kg<br><br>006 Total 29.994 kg<br><br>Max 4.999 kg<br>Min 4.999 kg<br>Diff 0.000 kg<br>x 4.9990 kg<br>Sd 0.0000 kg<br>Srel 0.0000 % |
|---|--|--|

Printout Format #2

Printout Format #4  
with Statistic Results Output

Printout Format #5  
with Statistic Results Output

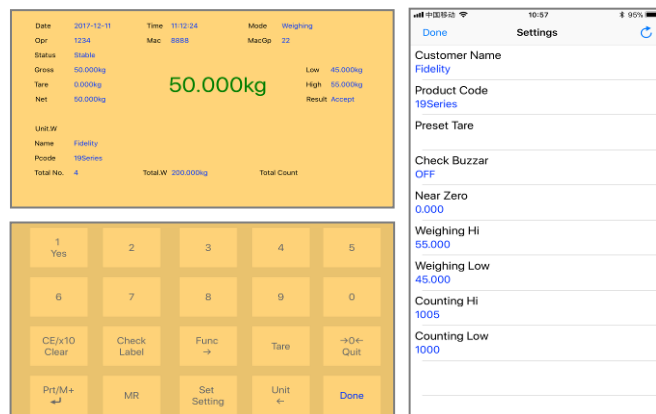
**Versatility, Functionality and Accuracy are always Built-in**

# 21e Configurable Indicator

## Apps for Smart Phones & Devices

iOS App (i19) & Android App (a19) are available for free download at App Store and Google Play respectively. Both Apps support connection via Bluetooth and WIFI.

These Apps are so powerful that actually they turn your smart devices into a handheld terminal, remote display, remote data input center and controller of your FM product connected.



## End User PC Software

- Freeware Specially Created to Support End Users
- Real Time Operation Status Monitoring
- Operation Parameters Setting
- Real Time Process Monitoring
- Individual and Totalized Record Storage
- Database File Output



## Options

- Stainless Steel Wall/Desk Mount Holder
- SP-POS58IV & SP-POS88IV Thermal Ticket Printer
- LP-50, TDP-225, TTP-225, TTP-247, TTP-345 Label Printer
- Serial Barcode Reader
- WM Wireless Communication Module
- RD-DOT Dot Matrix Remote Display
- Bluetooth 4.0BLE Module
- Bluetooth 2.0 Module
- Isolated RS232
- Built-in 8-Channel Control Relay Board (Factory Installation)
- WIFI Module
- DPP-250 Bluetooth Thermal Printer



***Versatility, Functionality and Accuracy are always Built-in***



# 21<sup>e</sup> Configurable Indicator

## Specifications

|                                     |  |
|-------------------------------------|--|
| Capacity and Readability            | Free Setting   |
| Weighing Range                      | Single Range, Dual Range, Dual Interval  |
| Weight Units                        | kg, g, lb  |
| Displays                            | <ul style="list-style-type: none"><li>• Display #1: - 6 x 25mm LED Numeric Digits</li><li>• Display #2: - 6 x 10mm LED Numeric Digits</li><li>• Display #3: - 6 x 10mm LED Numeric Digits</li></ul>  |
| Load Cell Connection                | <ul style="list-style-type: none"><li>• Excitation Voltage = 5V DC</li><li>• Support both 4-wire &amp; 6-wire Load Cells</li><li>• Maximum Load Cell Connection = 10 x 350Ω or 20 x 700Ω Load Cells</li><li>• Maximum Load Cell Rated Output 4mV/V</li></ul> |
| A/D Converter & Internal Resolution | <ul style="list-style-type: none"><li>• 24 bit Low-Noise Delta to Sigma (<math>\Delta-\Sigma</math>)</li><li>• 3.200,000 Counts at 15 mV</li><li>• Minimum input per d = 0.05μV</li></ul>  |
| AD Conversion Speed                 | 15, 30, 60, 120, 240, 480 times/second Selectable  |
| Max. Tare Range                     | <ul style="list-style-type: none"><li>• -Max for Single Weighing Interval or</li><li>• -Max<sub>1</sub> (Subtractive Tare)</li></ul>   |
| Calibration Methods                 | <ul style="list-style-type: none"><li>• 2 Span Points Calibration (Linearity Calibration), or</li><li>• 1 Span Point Calibration, or</li><li>• Numeric Calibration Through Keyboard</li></ul>  |
| Power Source                        | <ul style="list-style-type: none"><li>• Built-in Rechargeable Battery = 6V, 4AH</li><li>• External Power Adaptor = DC 12V, 1A</li></ul>  |
| Accessories                         | Pillar Mount Holder (φ35~38mm), Built-in Rechargeable Battery, Universal Power Adaptor, Dust Cover   |
| Packing                             | Individually Packed <ul style="list-style-type: none"><li>• Dimensions = 36 x 32 x 16cm. Net / Gross = 2.35 / 2.85kg</li><li>• 6 Units in Shipping Carton</li><li>• Dimensions = 102 x 35 x 35cm. Net / Gross = 17.00/ 18.50kg</li></ul>                     |
| Operation Environment               | -10 ~ 40°C. Non-condensed. R.H. ≤ 85%  |

*In the interest of improvement, specifications may change prior to notice*