Fidelity Measurement

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19eA is probably one of the most advanced & powerful LED display weighing indicators at the similar price level.

It is designed and programmed to provide fast, easy and straightforward operation to meet an extraordinary wide range of applications like general static & dynamic industrial weighing, piece counting, shipping control, truck & tank weighing, pre-packing, manual sorting & packing, scientific & peak measuring & monitoring… etc. no matter as a standalone unit or incorporated in an integrated weighing system.

Configurable optical key gives easier and more efficiency access to the mostly used key and at the same time to prolong life span of the convention keyboard. It can be configured as Manual [Print/M+], Manual [Zero], Manual [Tare] or even disabled.

Tri-color Check Result Light Bar with 8 LED per check status presents pin-point accuracy about where and how far the current weight is and how far it is away from target value.

Thanks to the built-in 32-bit micro-processor, unsurpassed innovative program, new linearity compensation method, wide range of flexible, selectable operation parameters and selectable AD conversion speed, **19eA** always deliver unexceptional fast, accurate and stable results from low to high resolution, simple to complicated applications even at extremely heavy workload.

Functions

- Static, Dynamic & Animal Weighing, Piece Counting and Peak Hold
- 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
- Add-Tare-Memory (ATM) & Remove-Tare-Memory (RTM) Function
- Manual, Preset, Auto, Repetitive and Continuous Tare Operation
- Continuous Tare with Configurable Delay Time before Tare Action
- Weight and Quantity Check Mode
- 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
- Automatic Statistic and Standard Deviation Calculation & Printout for up to 300 Transactions
- Configurable Optical Key

Versatility, Functionality and Accuracy are always Built-in

19eA Multi-Function Indicator

Operation and Management Features

- **Full Numeric Keypad**
- **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 or Keypad**
- **Customer & Product Code Support Numbers, Alphabets and Selected Symbols**
- **Support External [Zero], [Tare] and [Print/M+] Key Input through Scanner**
- **Configurable Tri-Color Check Result Light Bar**
- **Configurable Keypad, Check & System Buzzer**
- **2 x Independently Configurable Bi-Direction Serial Comports.**
- **Support Inquiry, Setting and Execution Commands through PC**
- **All Current Operation Results Output in Data Base Format Increases Ease & Efficiency of Data Management, Processing & Analysis**

- **Label Printers Supported: -**
  - ➢ **Datecs = LP-50**
  - ➢ **TSC = TDP-225, TDP-247, TDP-345, TTP-225, TTP-247, TTP-345**
  - ➢ **Sbarco = all Models with Serial Port**
- **Selectable Portrait / Landscape Ticket Printout Format**
- **6 x 25mm LED Numeric Digits**
- **Zero, Gross, Net, Weighing Range, Memory & Battery Level & Recharge Indicators**
- **Watchdog System to Prevent Damages caused by Load Cell Short-circuit.**
- **70 Hours plus Battery Service Time**
- **Zero, Net, Weight Unit, Memory & Lo Battery Level & Recharge Status Indicators**
- **Real Time Clock**

	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

```
Time   14:03:25
Date   2017-02-27
Seq      1
Name   ASDFGHJKLQWERTYUIO
Pcode 123456789012345678
Net      15.000kg
Tare     0.000kg
Gross   15.000kg
Total    15.000kg


High     15.001kg
Low      14.999kg
Accept
```

Printout Format #2

```
Name ASDFGHJKLQWERTYUIO
Pcode 123456789012345678
Opr   0123
Mac   6666
MacGp 22

Date  2017-02-27
Time  13:58:54

Seq   Gross   Net
001   5.000   5.000 kg
002   5.000   5.000 kg
003   5.000   5.000 kg
004   10.000  10.000 kg
005   10.000  10.000 kg
006   10.000  10.000 kg
-----------------------
006           45.000 kg

Max           10.000 kg
Min           5.000 kg
Diff          5.000 kg
x             7.5000 kg
Sd            2.7386 kg
Srel          36.5147 %
-----------------------
```

Printout Format #4
with Statistic Results Ouput

```
Name ASDFGHJKLQWERTYUIO
Pcode 123456789012345678
Opr   0123
Mac   6666
MacGp 22

Date  2017-02-27

Seq   Time     Net
001 14:00:17   4.999 kg
002 14:00:20   4.999 kg
003 14:00:23   4.999 kg
004 14:00:27   4.999 kg
005 14:00:30   4.999 kg
006 14:00:33   4.999 kg
-----------------------
006   Total   29.994 kg

Max           4.999 kg
Min           4.999 kg
Diff          0.000 kg
x             4.9990 kg
Sd            0.0000 kg
Srel          0.00000 %
-----------------------
```

Printout Format #5
with Statistic Results Ouput

Versatility, Functionality and Accuracy are always Built-in

19*e*A Multi-Function Indicator
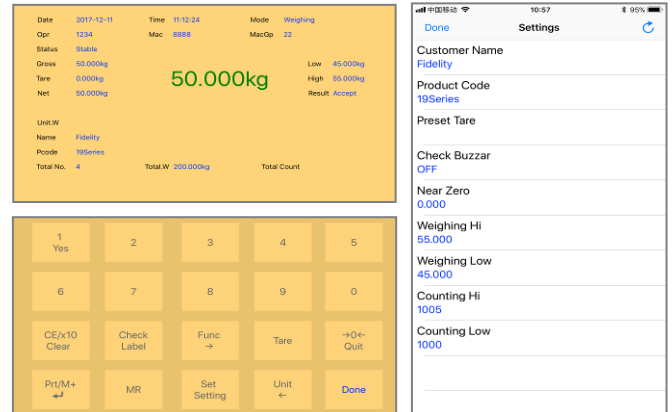
Connectivity

- 2 x Configurable Bi-Directional Serial Comports. Maximum Baud Rate = 256000
- Support Bar Code Scanner for Customer & Product Code Entries
- 9 x Selectable Fixed plus 1 x User Programmable PC Output Protocols
- Optional Built-in LAN Module for Ethernet and Internet Communication

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.
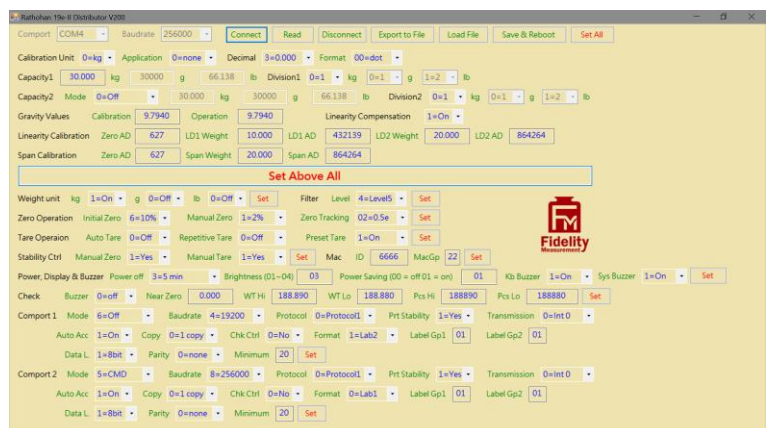

End User PC Software

- 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

Distributor only PC Software

- Freeware Specially Created to Support Distributors
- Extremely Useful for Heavy Capacity and Complex System Installation, Checking, Testing and Commissioning
- Real Time Important System Parameters Monitoring and Setting
- Export Current System Settings to External Backup File
- On Site or Remote System Recovery by External Backup File without Re-Calibration

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19*e*A Multi-Function Indicator

Specifications

Capacity and Readability	**Free Setting**
Weighing Range	**Single Range, Dual Range, Dual Interval**
Weight Units	**kg, g, lb**
Display	• **6 x 20mm LED Numeric Digits** • **5 x Adjustable Brightness Level**
Load Cell Connection	• **Excitation Voltage = 5V DC** • **Support both 4-wire & 6-wire Load Cells** • **Maximum Load Cell Connection = 12 x 350Ω Load Cells or 24 x 700Ω Load Cells**
Micro Processor	**32-bit High Speed & High EMC Immunity**
A/D Converter & & Internal Resolution	• **24 bit Low-Noise Delta to Sigma (Δ-Σ)** • **4,000,000 Counts at 20 mV** • **Minimum input per d = 0.05μV**
AD Conversion Speed	**15, 30, 60, 120 times/second Selectable**
Max. Tare Range	**-Max or -Max$_1$ (Subtractive Tare)**
Calibration Methods	• **2 Span Points Calibration (Linearity Calibration), or** • **1 Span Point Calibration, or** • **Numeric Calibration Through Keyboard**
Power Source	• **Built-in Rechargeable Battery = 6V, 4AH** • **External Power Adaptor = DC 12V, 1A**
Accessories	**Pillar Mount Holder (ψ35~38mm), Built-in Rechargeable Battery, Universal Power Adaptor, Dust Cover**
Packing	**Individually Packed** • **Dimensions = 36 x 32 x 16cm. Net / Gross = 2.35 / 2.85kg** **6 Units in Shipping Carton** • **Dimensions = 102 x 35 x 35cm. Net / Gross = 17.0/ 18.5kg**
Operation Environment	**-10 ~ 40ºC. Non-condensed. R.H.≦ 85%**

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

Options

- **Stainless Steel Wall/Desk Mount Holder**
- **SP-POS58IV & SP-POS88IV Thermal Ticket Printer**
- **Serial Bar Code Scanner**
- **WM Wireless Communication Module**
- **RD-DOT Dot Matrix Remote Display**
- **Built-in LAN Communication Module (Rechargeable Battery has to be Removed)**

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