



19ia Multi-Function Digital to Analogue Indicator



19ia is a multi-function indicator and is built-in 3 types of selectable analogue output types, i.e. 0-5V, 0-10V, 4-20mA.

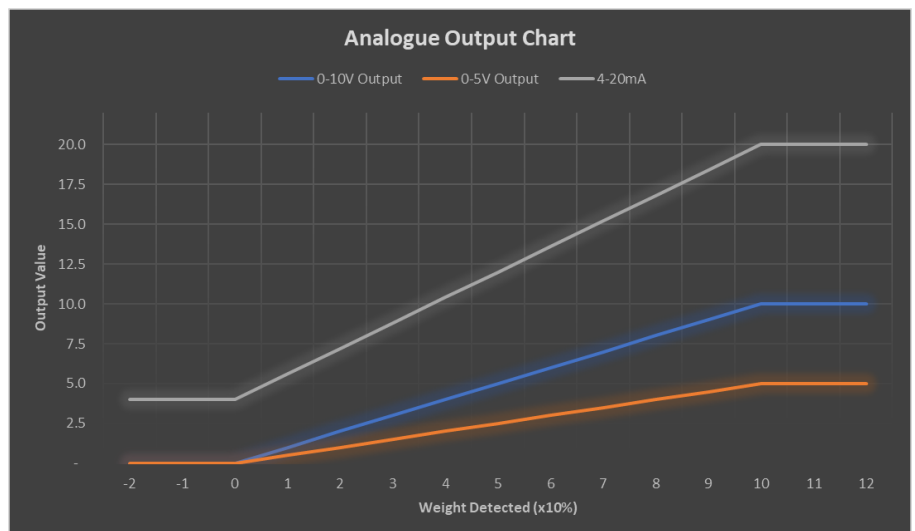
All these 3 outputs are supported by a 16-bit digital to analogue converter with output accuracy better than 1/65000. Whereas the weighing accuracy is guaranteed by our OIML 10,000e approved circuit.

19ia is designed and programmed to provide fast, easy and straightforward operation to meet an extraordinary wide range of industrial applications which require absolute accuracy in both weighing and analogue output for industrial control.

Thanks to the built-in high-speed micro-processor, unsurpassed innovative program, new linearity compensation method, wide range of flexible, selectable operation parameters and selectable AD conversion speed.

Reliability and durability are safeguarded and guaranteed by the carefully selected components from renowned manufacturers as well as smart designed and well-planned circuits.

19ia always deliver more than it is expected and the #1 choice whenever & wherever performance, reliability, durability and flexibility are of no compromise.



Adjustable Tri-Color Check Result Backlight

Versatility, Functionality and Accuracy are always Built-in

19ia Multi-Function Digital to Analogue Indicator

Functions

- Static, Dynamic & Animal Weighing, Piece Counting and Peak Hold
- Selectable 0-5V, 0-10V and 4-20mA Analogue Output
- Analogue Output can be Based on Gross or Net Weight Result
- Support Single Range, Dual Range and Dual Interval Operation
- Near Zero Weight Value for Dynamic Weighing to avoid False Signal Output
- User Selectable Analogue Output based on Gross or Net Weight Results
- 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

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 Symbols Characters
- Support External [Zero], [Tare] and [Print/M+] Key Input through Scanner
- Tri-Color Check Result Indication
- Configurable Keypad, Check & System Buzzer
- 2 x Independently Configurable Bi-Direction Serial Comports. Selectable TTL Output for Comport 1
- 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
- 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
- 6 x 45mm Huge Size Bold Type Wide Angle LCD Numeric Digits
- Zero, Gross, Net, Weighing Range, Memory & Battery Level & Recharge Indicators
- Watchdog System to Prevent Damages caused by Load Cell Short-circuit.
- Smart Charging Circuits
- 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

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Printout Formats

Time	14:27:24
Date	2016-10-06
Seq	1
Name	VNFHRUDHFLQAUOKMCB
Pcode	12345678901234567A
Net	5.000kg
Tare	2.500kg
Gross	7.500kg
Total	5.000kg
High	10.005kg
Low	9.995kg
Below	limit

Printout Format #2

Name	VNFHRUDHFLQAUOKMCB	
Pcode	12345678901234567A	
Opr	3333	
Mac	8888	
MacGp	77	
Date	2016-10-06	
Time	14:25:24	
Seq	Gross	Net
001	7.500	5.000 kg
002	7.500	5.000 kg
003	9.999	7.499 kg
004	9.999	7.499 kg
005	12.500	10.000 kg
006	5.000	2.500 kg

006	37.498 kg	

Printout Format #4

Name	VNFHRUDHFLQAUOKMCB	
Pcode	12345678901234567A	
Opr	3333	
Mac	8888	
MacGp	77	
Date	2016-10-06	
Seq	Time	Net
001	14:26:11	2.500 kg
002	14:26:14	5.000 kg
003	14:26:18	7.499 kg
004	14:26:25	2.500 kg
005	14:26:28	5.000 kg
006	14:26:31	7.499 kg

006	Total	29.998 kg

Printout Format #5

Connectivity

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

Apps for Smart Phones & Devices

Free iOS App (i19) & Android App (a19) are available at App Store and Google Play respectively. 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 to Conduct in-house and remote monitoring and control
- 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

Distributor only PC Software

- Freeware Specially Created to Support Distributors to Conduct Real-time in-house and remote diagnosis, settings and system recovery without re-calibration
- Extremely Useful for Heavy Capacity and Complex System Installation, Checking, Testing and Commissioning
- Serial Bar Code Scanner
- WM Wireless Communication Module
- RD-DOT Dot Matrix Remote Display
- Bluetooth 2.0 or 4.0BLE Module/Kit
- Built-in LAN Communication Module (Rechargeable Battery has to be Removed)

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Specifications

Capacity and Readability	Free Setting
Weighing Range	Single Range, Dual Range, Dual Interval
Weight Units	kg, g, lb
Display	6 x 45mm Huge Size Bold Type Wide Angle LCD Numeric Digits
Load Cell Connection	<ul style="list-style-type: none"> Excitation Voltage = 5V DC Support both 4-wire & 6-wire Load Cells Maximum Load Cell Connection: - <ul style="list-style-type: none"> Approved = 4 x 350Ω or 8 x 700Ω Load Cells Non-Approved = 10 x 350Ω or 20 x 700Ω Load Cells
A/D Converter & Internal Resolution	<ul style="list-style-type: none"> 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 for Single Weighing Interval or -Max ₁ (Subtractive Tare)
Analogue Output	16-bit Digital to Analogue Converter. Selectable Output Types: - <ul style="list-style-type: none"> 0-5V / 0-10V / 4-20mA
Calibration Methods	<ul style="list-style-type: none"> 2 Span Points Calibration (Linearity Calibration), or 1 Span Point Calibration, or Numeric Calibration Through Keyboard
Power Source	<ul style="list-style-type: none"> Built-in Rechargeable Battery = 6V, 4AH External Power Adaptor = DC 12V, 1A
Accessories	Pillar Mount Holder (φ35~38mm), Built-in Rechargeable Battery, Universal Power Adaptor, Dust Cover
Packing	Individually Packed <ul style="list-style-type: none"> Dimensions = 36 x 32 x 16cm. Net / Gross = 2.35 / 2.85kg 6 Units in Shipping Carton <ul style="list-style-type: none"> Dimensions = 102 x 35 x 35cm. Net / Gross = 17.0/ 18.5kg
Operation Environment	-10 ~ 40°C. Non-condensed. R.H. ≤ 85%

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



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