



**DC-10** is a configurable counting indicator specially designed for highly demanding counting and weighing applications.

### What's Inside

32-bit micro-processor, 24-bit A/D converter, superior electronics, Alibi memory for 130,000 plus transactions, unsurpassed innovative program, new linearity compensation method, comprehensive range of flexible, selectable operation parameters, selectable AD conversion speed and 1.2 million counting resolution.



### Expandability & Flexibility... 1 + 1 = 3

When equipped with optional secondary platform, **DC-10** turns these 2 platforms into 3 scales.

Switching among platform 1, platform 2 and platform 1+2 is just a matter of fingertips.

### Speeds up Production & Less Human Error

**DC-10** memorizes your operation settings and entries for hundreds of different products, from smallest to bulk quantities, and candies to metal screws.

Full numeric and function keyboard ensure straightforward unit weight, sample quantity entries and operation controls. While the large LCD display with tri-color backlight displays weight, unit weight, number of pieces and other operation status / information plus tri-colored display makes target weight or counting check result readings nothing more than a glance even in a dim and dark environment.

Just by 4 pressings, all detailed operation settings and entries, from platform to be used, customer, product code & description, unit weight, set points, tare behavior, pre-tare value to expiry date of a particular product are recalled and employed.

**DC-10** always delivers unexceptional fast, accurate and stable results for all counting and weighing applications, from tiny electronic components to heavy metal parts, accurately, quickly and easily.



*Adjustable Tri-Color Check Result Backlight*

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

# DC-10 Configurable Counting Indicator

## Data is always Secured & Ready in Alibi Memory

Transaction date is collected in real time, centrally stored and is ready for retrieval from locally or remotely.

Productivity & production volume analysis per each employee, production line, plant, customer and product with yield rate data is made possible just by several clicks on PC keyboard.



## Connectivity

- Maximum 4 independent configurable comports in either RS232, TTL, RS485, WIFI, Bluetooth or LAN, plus various predefined and custom output protocols.
- Baud Rate = 1200 ~ 921600
- Standard Hardware Connection = RS232, TTL and RS485 (Optional)
- Optional Wireless Connection = WIFI, BT 2.0/4.0BLE
- Built-in 4-Channel Control Relay Board (Optional)
- 3x Configurable External Inputs (Built-in)
- Secondary Weighing Platform (Optional)



All these together guarantee the flawless connection with all kinds of peripheral from remote display, ticket/label printers, computer database to ERP system.

## APPS for Smart Phones & Devices

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 **DC-10** connected.



These Apps support connection via Bluetooth and WIFI.

Search for: -

- aConnect at Google Play.
- FMDirect at App Store

## Operation Features

- Full Numeric and Function keyboard
- Tri-Color Backlight
- Support Single Range, Dual Range and Dual Interval Operation
- Near Zero Weight Value for Dynamic Weighing to avoid False Signal Output
- Manual, Preset, 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 Keypad, Check & System Buzzer
- Secondary Weighing Platform Input (Optional)
- 9 x Selectable Filter Strength Levels plus 4 x AD Conversion Speed

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# DC-10 Configurable Counting Indicator

## Management Features

- Configurable Machine ID, Machine Group and Operator Number to Enhance Ease of Multi-Scales Applications and Management Records
- Daily, Monthly, Specific Period Report Output
- Multi Search Criteria for Report Generation
- Support Customer Code & Description and Product Code & Description Input
- 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 Database Format for Data Management, Processing & Analysis
- 10x Quick Access PLU (for each weight unit) for Unit Weight, Quantity Check Limits, Weight Check Limits, Pre-Set Tare, Customer Code & Description and Product Code & Description
- 99 x Operation Settings and Entries PLUs per each Platform (P1, P2 and P1+2 together)
- Customer & Product Code and Description Support Numbers, Alphabets and Selected Symbols
- 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
- User Programmable and 10 x built-in Predefined Continuous / Interval Output Protocol
- Support Product Expiry Duration Input and Output

## Data Output Formats

### Format #1

Date	Time	Seq	PF#	Net	Tare	Gross	Total_WT	QTY	@WT	Total_QTY	Ref.	Result
2018/11/29	14:07:12	0001	P1	2.500kg	0.000kg	2.500kg	2.500kg	2000	1.25000g	2000	pcs	Below
2018/11/29	14:07:15	0002	P1	5.000kg	0.000kg	5.000kg	7.500kg	4000	1.25000g	6000	pcs	Accept
2018/11/29	14:07:17	0003	P1	7.501kg	0.000kg	7.501kg	15.001kg	6001	1.25000g	12001	pcs	Above
2018/11/29	14:07:19	0004	P1	10.000kg	0.000kg	10.000kg	25.001kg	8000	1.25000g	20001	pcs	Above

Format #2				Format #4				Format #5			
Time	14:08:09	Name FM		Name FM		Name FM					
Date	2018-11-29	Pcode	DC-10	Pcode	DC-10	Pcode	DC-10				
Seq	1	Opr	1111	Opr	1111	Opr	1111				
PF#	P1	Mac	22	Mac	22	Mac	22				
Name FM		MacGp	03	MacGp	03	MacGp	03				
Fidelity											
Pcode	DC-10	Date	2018-11-29	Date	2018-11-29	Date	2018-11-29				
Configurable Indicator		Time	14:09:25								
Net	2.500kg			Seq	Time	QTY					
Total_WT	2.500kg	Seq	QTY	Net							
QTY	2000pcs	0001 P1	2000	2.500kg	0001 P1	14:10:21	2000				
@WT	1.25000 g	0002 P1	4000	5.000kg	0002 P1	14:10:23	4000				
Total_QTY	2000pcs	0003 P1	6001	7.501kg	0003 P1	14:10:24	6000				
		0004 P1	8000	10.000kg	0004 P1	14:10:26	8000				
High	5000pcs				-----						
Low	2500pcs	0004 P1			0004 P1 Total:		20000				
Result	Below	Total	20001	25.001kg							

### Format #3

Opr	Seq	Platform	Mac	MacGp	Date	Time	Name	Product	Gross	Tare	Net	Total.W	Unit	Count	Unit.W	Unit	Lo	Hi	Target	Result	Total.C
1111	0001	P1	22	03	2018/11/29	14:03:54	FM	DC-10	2.500	0.000	2.500	2.500	kg	2000	1.250	g	2500	5000	pcs	Below	2000
1111	0002	P1	22	03	2018/11/29	14:03:57	FM	DC-10	5.000	0.000	5.000	7.500	kg	4000	1.250	g	2500	5000	pcs	Accept	6000
1111	0003	P1	22	03	2018/11/29	14:03:59	FM	DC-10	7.500	0.000	7.500	15.000	kg	6000	1.250	g	2500	5000	pcs	Above	12000
1111	0004	P1	22	03	2018/11/29	14:04:01	FM	DC-10	10.000	0.000	10.000	25.000	kg	8000	1.250	g	2500	5000	pcs	Above	20000

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# DC-10 Configurable Counting Indicator

## Specifications

Capacity and Readability / Platform	Free Setting
Weighing Range / Platform	Single Range, Dual Range, Dual Interval
Displays	<p><b>Bold Type Wide Angle LCD</b></p> <ul style="list-style-type: none"> <li>• Count: - 6 x 36mm Numeric Digits</li> <li>• Weight: - 6 x 17mm Numeric Digits</li> <li>• @Weight: - 6 x 17mm Numeric Digits</li> </ul>
Load Cell Connection / Platform	<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 / Platform	<ul style="list-style-type: none"> <li>• 24 bit Low-Noise Delta to Sigma (<math>\Delta</math>-<math>\Sigma</math>)</li> <li>• 3.2 million Counts at 15 mV</li> <li>• Minimum input per d = 0.05μV</li> </ul>
AD Conversion Speed	15, 30, 60, 120 times/second
Max. Tare Range / Platform	<ul style="list-style-type: none"> <li>• -Max for Single Weighing Interval or</li> <li>• -Max<sub>1</sub> (Subtractive Tare)</li> </ul>
Counting Resolution / Platform	1.2 million
Safe @Weight	≥ 1/10e of the Sampling Platform
Least @Weight	≥ 1/600,000 of Rated Capacity of the Sampling Platform
Calibration Methods / Platform	<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 (ψ35~38mm), Built-in Rechargeable Battery, Universal Power Adaptor, Dust Cover
Packing	<p>Individually Packed</p> <ul style="list-style-type: none"> <li>• Dimensions = 36 x 32 x 16cm. Net / Gross = 2.35 / 2.85kg</li> </ul> <p>6 Units in Shipping Carton</p> <ul style="list-style-type: none"> <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*

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## Options

- Stainless Steel Wall/Desk Mount Holder
- SP-POS58IV & SP-POS88IV Thermal Ticket Printer
- Datecs LP-50 and TSC TDP-225, TTP-225, TTP-247, TTP-345 Label Printer
- RD-DOT Dot Matrix Remote Display
- Built-in RS485 Communication Module
- Built-in Bluetooth 2.0 or 4.0BLE Module
- Built-in WIFI Communication Module
- Built-in 4-Channel Control Relay Board (Factory Installation)
- External WM Wireless Communication Module
- Secondary Weighing Platform Input



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