DC-29
Configurable Counting Indicator

The **DC-29** is a high-performance counting indicator designed for demanding counting and weighing tasks. Engineered with cutting-edge technology, it delivers fast, accurate, and stable results across a wide range of applications, from tiny electronic components to heavy metal parts.

Advanced Technology

- 32-bit microprocessor and 24-bit A/D converter for superior precision
- Alibi memory stores over 131,072 transactions
- Innovative linearity compensation with a counting resolution of 1.2 million
- Flexible operation parameters and adjustable A/D conversion speeds

Expandability

Connect an optional secondary platform to transform the **DC-29**, enabling two platforms to function as three weighing options with a simple key press:

- Platform 1
- Platform 2
- Platform 1 + 2 (combined)

Efficiency and Error Reduction

- Stores settings for hundreds of products, from small items like candies to bulk items like screws
- Recalls detailed settings (platform, customer, product codes, unit weight, limits, tare actions, date format and expiry date) with just four key presses
- Full numeric keyboard ensures intuitive operation
- Barcode scanner compatibility enables fast, error-free data entry (operator ID, product/customer codes, and key commands)
- Seamlessly integrates with computers, ticket/label printers, barcode/RFID readers, remote displays, ERP systems, and smart devices

Versatility, Functionality and Accuracy are always Built-in

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Clear Display

A large LCD with adjustable tri-color backlight ensures high visibility, even in dim or dark environments, displaying:

- Weight
- Unit weight
- Piece count
- Operation status and check results

Adjustable Tri-Color Check Result Backlight
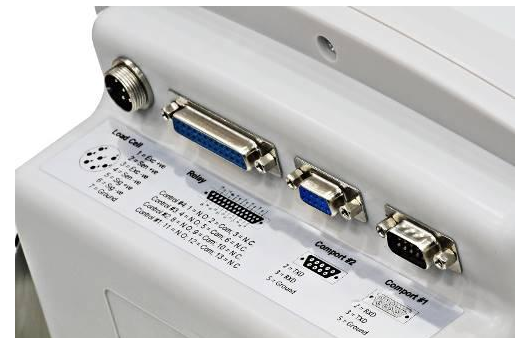
Streamlined Operations

- Memorizes settings to minimize manual input and human error adapts quickly to different products and workflows
- Adapts quickly to different products and workflows

Data Management

- Alibi memory securely stores transaction data in real-time
- Alibi Management Report retrieval by day, month, period, specific record(s), or last
- Analyze productivity (by employee, machine, plant, customer, or product) with yield rates via a few clicks on a PC

Connectivity

- Up to four independent configurable comports: RS232, RS485, Wi-Fi, Bluetooth, or LAN
- 10 predefined protocols plus one custom output protocol
- Baud rate range: 1,200 to 921,600
- Optional 4-channel control relay board
- Optional Three configurable external inputs
- Optional secondary weighing platform
- Support computers, ticket/label printers, barcode/RFID readers, remote displays, ERP, and smart devices connection

Mobile Apps

iOS or Android devices can serve as a remote terminal, display, or controller, supporting Bluetooth and Wi-Fi connectivity:

- aConnect: Available on Google Play
- FMDirect: Available on App Store

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Operation Features

- Full numeric and function keyboard
- Tri-color backlight for check results
- Supports single-range, dual-range, and dual-interval weighing
- Near-zero weight detection for dynamic weighing
- Tare options: manual, auto, preset, repetitive, continuous (with configurable delay)
- Barcode scanner support for tare, zero, print, and code entry
- Real-time clock with backup battery
- Watchdog system prevents load cell short-circuit damage
- Configurable keypad, check, and system buzzer
- Nine selectable filter strengths and four A/D conversion speeds
- Predefined and customizable landscape, portrait, and continuous output formats
- Checksum support ensures data integrity verification

Management Features

- Configurable machine ID, group, and operator number for multi-scale setups
- Daily, monthly, or custom period reports
- Multi-criteria search for report generation
- PC-compatible commands for inquiry, settings, and execution
- Check result controls for accumulation, printing, and data output
- Keypad lock function
- Database-format output for efficient data management
- Quick-access PLUs:
    - 10 per weighing unit for unit weight, check limits, and preset tare
    - 100 each for customer/product codes and descriptions
    - 99 custom settings per each platform (P1, P2, P1+2)
- Supported label printers:
    - Datecs LP-50
    - TSC TDP-225, TDP-247, TDP-345, TTP-225, TTP-247, TTP-345
    - Sbarco (all serial port models)
- Selectable portrait/landscape ticket formats
- User-programmable plus 10 predefined PC output protocols
- Product expiry date input/output

Sys. Seq	Opr	Platform	Mac	MacGp	Date	Time	Ccode	C Description	Pcode	P Description	Gross	Tare	Net	Unit	@WT	@WT Unit	QTY	Low	High	Check Target	Result	Checksum
1	6666	P1	11	22	1/16/2025	15:33:04	FM	Fidelity	DC-29	Counting Indicator	1.003	-	1.003	kg	1.00000	g	1003	0	0	pcs		68
2	6666	P1	11	22	1/16/2025	15:35:22	FM	Fidelity	DC-29	Counting Indicator	1.000	-	1.000	kg	1.00000	g	1000	0	0	pcs		18
3	6666	P1	11	22	1/16/2025	15:35:40	FM	Fidelity	DC-29	Counting Indicator	1.003	-	1.003	kg	1.00000	g	1003	1500	2500	pcs	Below	88
4	6666	P1	11	22	1/16/2025	15:35:43	FM	Fidelity	DC-29	Counting Indicator	2.003	-	2.003	kg	1.00000	g	2003	1500	2500	pcs	Accept	E6
5	6666	P1	11	22	1/16/2025	15:35:46	FM	Fidelity	DC-29	Counting Indicator	3.002	-	3.002	kg	1.00000	g	3002	1500	2500	pcs	Above	87
6	6666	P1	11	22	1/16/2025	15:35:50	FM	Fidelity	DC-29	Counting Indicator	2.003	-	2.003	kg	1.00000	g	2003	1500	2500	pcs	Accept	E6
7	6666	P1	11	22	1/16/2025	15:35:52	FM	Fidelity	DC-29	Counting Indicator	1.002	-	1.002	kg	1.00000	g	1002	1500	2500	pcs	Below	8C

Management Report Illustration

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Specifications

Capacity and Readability / Platform	Free Setting
Weighing Range / Platform	Single Range, Dual Range, Dual Interval
Displays	Bold-type wide-angle LCD • Count: 6 x 36mm numeric digits • Weight: 6 x 17mm numeric digits • Unit Weight: 6 x 17mm numeric digits
Load Cell Connection / Platform	• Excitation Voltage: 5V DC • Supports both 4-wire and 6-wire load cells • Maximum Load Cell Connection: 10 x 350Ω or 20 x 700Ω load cells • Maximum Load Cell Rated Output: 4mV/V
A/D Converter & Internal Resolution / Platform	• 24-bit low-noise Delta-to-Sigma (Δ-Σ) • 3.2 million counts at 15 mV • Minimum input per division: 0.05μV
AD Conversion Speed	15, 30, 60, 120 times/second
Max. Tare Range / Platform	-Max or -Max$_i$ (Subtractive Tare)
Counting Resolution / Platform	1.2 million
Calibration Methods / Platform	• 2-span point calibration (linearity calibration) • 1-span point calibration • Numeric calibration through keyboard
Power Source	• Built-in rechargeable battery: 6V, 4AH • External power adapter: DC 12V, 1A
Accessories	Pillar mount holder (ø35~38mm), built-in rechargeable battery, universal power adapter, dust cover
Packing	• Individually packed: 30 x 33 x 19cm, Net/Gross: 2.50/2.90kg • 4 units in a shipping carton: 63 x 35 x 42cm, Net/Gross: 10.00/13.50kg
Operation Environment	-10 ~ 40°C .Non-condensing. 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
- Built-in RS485 Communication Module
- Built-in Bluetooth Module (2.0 or 4.0 BLE)
- Built-in Wi-Fi Communication Module
- Built-in 4-Channel Control Relay Board (requires factory installation)
- Three configurable external inputs (requires factory installation)
- Secondary Weighing Platform Input
- Bluetooth 2.0 Wireless Barcode Scanner
- Serial Cable Barcode Scanner
- SP-POS58IV & SP-POS88IV Thermal Ticket Printer
- RD-DOT Dot Matrix Remote Display

Fidelity Measurement Co Ltd
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