



29s



Stainless Steel Multi-Function Indicator



The **29s** is a versatile multi-function weighing indicator housed in a reinforced, IP66-rated SUS304 stainless steel enclosure. Designed for industrial weighing, production control, data recording, and label printing, it features a pressure-balancing housing design to reduce condensation risk in cold-storage and washdown applications. Flexible wall or desk mounting supports standalone use and system integration.



Enhanced Reliability for Cold and Washdown Environments

The **29s** incorporates a pressure-balancing housing design specifically developed to address the challenges of cold-storage and washdown environments, where temperature fluctuations and moisture exposure are common.

Core Technology

- 32-bit ARM Cortex M23 Microprocessor
- 24-bit Low-Noise Sigma-Delta (Σ - Δ) A/D Converter
- Internal Resolution up to 4 million Counts at 20mV
- Minimum Input per Division 0.05 μ V
- Selectable Conversion Speed: 10, 20, 60, or 120 times per second
- Adjustable Filter Strength and Anti-Vibration Level
- Support for Single Range, Dual Range, and Dual Interval

Tare and Check Functions

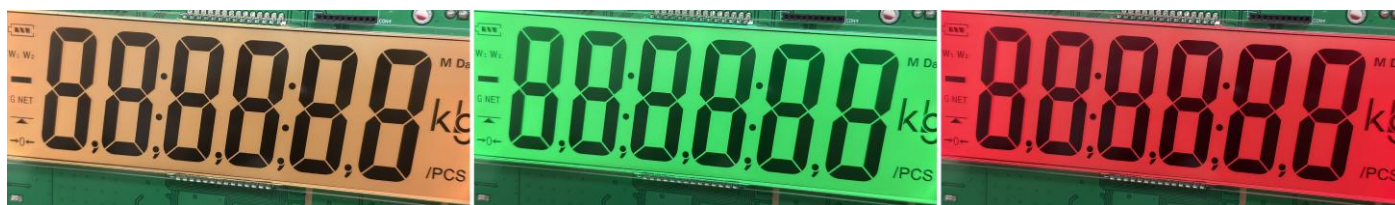
- Manual Tare
- Automatic Tare
- Continuous Automatic Tare with Adjustable Activation Time
- Repetitive and Multiple Tare
- Preset Tare
- Dynamic Check Mode with Near Zero Function
- Configurable Buzzer for Check Result

Operation Modes

- Weighing Mode
- Piece Counting Mode
- Animal Weighing Mode
- Peak Hold Mode
- Action-Tare-Memory Mode

Control Logic and Output

- User-Configurable Production Settings PLUs can be recalled through Product/Customer Code Scanning
- Inflow and Outflow Control
- Constant Feeding
- Constant Dispensing
- Optional 4-Channel Control Relay Output
- Optional 0-5V, 0-10V and 4-20mA Analogue Output



Adjustable Tri-Color Check Result Backlight

Versatility, Functionality, and Accuracy are all Built-In

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Memory and Data Management

- Manual and Automatic Accumulation
- Memory Recall and Clearance
- Stores up to 100 Production Settings PLUs for each Supported Weight Unit
- Alibi Transaction Memory Storing up to 131,072 Transaction Records
- Machine ID and Group Number Setting
- Operator Number Management
- Customer and Product Code Entry
- Management Report with Customizable Output Criteria
- Real-Time Clock with Backup Battery
- Keypad Lock Helps Prevent Unintended or Unauthorized Setting Changes

Sys. Seq	Opr	Mode	Mac	MacOp	Date	Time	Ccode	C Description	Pcode	P Description	Gross	Tare	Net	Unit	@WT	@WT Unit	QTY	Low	High	Check Target	Result	Note	Checksum
100	8888	1	11	22	7/1/2026	15:41:54	FM	fm.com.tw	29s	SS Smart Indicator	1.501	0.250	1.251	kg	3.75403	g	333	748	752	pcs	Below	7799	AB
101	8888	1	11	22	7/1/2026	15:41:57	FM	fm.com.tw	29s	SS Smart Indicator	2.001	0.250	1.751	kg	3.75403	g	466	748	752	pcs	Below	7799	B7
102	8888	1	11	22	7/1/2026	15:42:01	FM	fm.com.tw	29s	SS Smart Indicator	2.501	0.250	2.251	kg	3.75403	g	600	748	752	pcs	Below	7799	A5
103	8888	0	11	22	7/1/2026	15:43:16	FM	fm.com.tw	29s	SS Smart Indicator	1.501	0.250	1.251	kg				0.749	0.751	kg	Above	7799	25
104	8888	0	11	22	7/1/2026	15:43:23	FM	fm.com.tw	29s	SS Smart Indicator	1.000	0.250	0.750	kg				0.749	0.751	kg	Accept	7799	84
105	8888	0	11	22	7/1/2026	15:43:25	FM	fm.com.tw	29s	SS Smart Indicator	1.001	0.250	0.751	kg				0.749	0.751	kg	Accept	7799	89
106	8888	1	11	22	7/1/2026	15:43:38	FM	fm.com.tw	29s	SS Smart Indicator	1.501	0.250	1.251	kg	3.75403	g	333	748	752	pcs	Below	7799	B5
107	8888	1	11	22	7/1/2026	15:43:41	FM	fm.com.tw	29s	SS Smart Indicator	3.001	0.250	2.751	kg	3.75403	g	733	748	752	pcs	Below	7799	B7
108	8888	1	11	22	7/1/2026	15:43:44	FM	fm.com.tw	29s	SS Smart Indicator	2.501	0.250	2.251	kg	3.75403	g	600	748	752	pcs	Below	7799	B3

Alibi Management Report Illustration

Communication Interfaces

- Standard: 2 x RS232
- Optional Bluetooth, Wi-Fi
- All Interfaces are independently Configurable
- Multiple Standard and Customized Portrait and Landscape Output Formats with Standard Deviation Support
- Support for LP-50, TSC, and Sbarco Label Printers
- Command Protocol and Customized PC Output



Software Solutions

FM Scale Monitor (Windows)

PLU and Report Management for Windows

- Monitor Up to Six Weighing Indicators Simultaneously
- Display Live Weight, Counting, Check-Weighing Results, Stability, and Connection Status
- Connect via Wi-Fi, LAN, Bluetooth 2.0 SPP, or Serial Communication
- Centrally Read, Edit, and Manage PLU Records
- Import PLU Data from Microsoft Excel
- Retrieve Alibi Transaction Reports
- Export Report Data in CSV or Excel Format
- Support Multiple Interface Languages

FM Scale Mobile (Android)

Mobile Weighing and Data Management for Android

- Monitor Live Weight and Counting or Check-Weighing Results
- Connect via Wi-Fi, LAN, USB OTG, or Bluetooth
- Select PLU Records and Display the Associated Functions and Check Limit Settings
- Retrieve Alibi Transaction Reports
- Export Report Data in CSV or Excel Format

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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 Wide Angle LCD Numeric Digits - Tri-Color Backlight with Adjustable Brightness
Load Cell Connection	- Excitation Voltage = 5V DC - Support both 4-wire & 6-wire Load Cells - Maximum Connections: 4 x 350Ω or 8 x 700Ω
Microprocessor	32-bit ARM Cortex M23 Microprocessor
A/D Converter & Internal Resolution	24-bit Low-Noise Sigma-Delta (Σ-Δ) 4.0 million Counts at 20mV - Minimum Input per Division = 0.05μV
A/D Conversion Speed	Selectable: 10, 20, 60, or 120 conversions per second
Max. Tare Range	-Max or -Max ₁ (Subtractive Tare)
Calibration Methods	- Two-point Linearity Calibration - Single-point Accuracy Calibration - Numeric Calibration via Keyboard
Power Source	- Built-in Rechargeable 6V, 5AH Battery - External 12V DC, 1A Power Adaptor
Accessories	Stainless Steel Wall/Desk Mount Holder
Packing	- Individually Packed. 31.5 x 31 x 14.5cm. Net/Gross = 2.50/3.55kg - Four Units in a Shipping Carton. 65.5 x 32 x 33.5cm. Net/Gross = 10.00/15.00kg
Design & Operation Environment	- Housing Design Optimized to Reduce Condensation Risk in Applications Involving Temperature Fluctuations - Temperature: -10°C to 40°C - Relative Humidity: ≤85%, Non-condensing

In the interest of improvement, specifications may change without notice

Options

- Wi-Fi, Bluetooth 2.0 SPP/4.0 Module
- 4-Channel Control Relay Board (Factory Installation)
- 0-5V, 0-10V and 4-20mA Analogue Output (Factory Installation)
- Bluetooth/Serial Barcode Scanner



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