



290s

Stainless Steel Multi-Function Indicator



The **290s** is a high-performance multi-function weighing indicator designed for industrial platforms, production control, database recording, label printing, animal weighing, and networked scale applications.

It features a SUS304 stainless steel enclosure with IP66 protection, engineered for operation in harsh industrial environments.



Based on field experience gained from food-processing, cold-storage, and washdown applications, the enclosure design incorporates pressure-balancing measures to reduce condensation risk and improve long-term reliability under demanding operating conditions. Its IP66-rated SUS304 stainless steel housing and reinforced mechanical structure deliver stable, long-term performance in continuous heavy-duty operation.

Flexible wall or desk mounting options enable seamless standalone or system-integrated installation.

Enhanced Reliability for Cold and Washdown Environments

The **290s** 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

Operation Modes

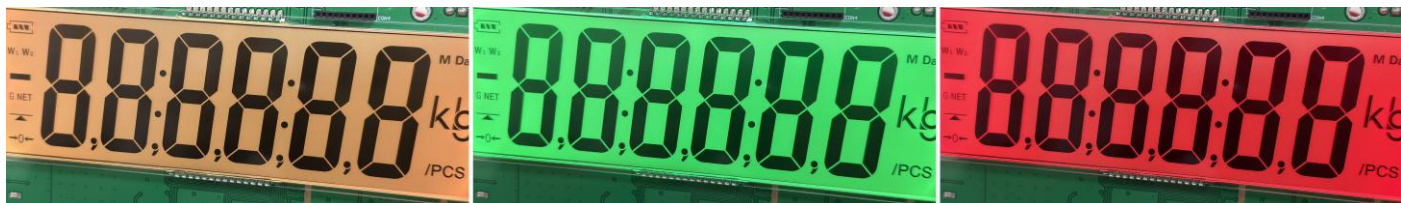
- Weighing Mode
- Animal Weighing Mode
- 100 User-Configurable Quick Access Production Settings PLUs can be recalled Through Product/Customer Code Scanning

Versatility, Functionality, and Accuracy are all Built-In

290s Stainless Steel Multi-Function Indicator

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



Adjustable Tri-Color Check Result Backlight

Memory and Data Management

- Manual and Automatic Accumulation
- Memory Recall and Clearance
- 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
- Keypad Lock Function to Prevent Unauthorized Access and Ensure Data Security

Sys. Seq	Opr	Mode	Mac	MacGp	Date	Time	C Code	C Description	P Code	P Description	Gross	Tare	Net	Unit	Low	High	Check Target	Result	Note	Checksum
18	8888	0	11	22	2026-07-01	9:29:56	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.0000	-	1.0000	kg	0.999	1.001	kg	Accept	701	DF
19	8888	0	11	22	2026-07-01	9:29:57	FM	www.fm.com.tw	290s	SS Weighing Indicator	0.5000	-	0.5000	kg	0.999	1.001	kg	Below	701	92
20	8888	4	11	22	2026-07-01	9:30:19	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.5000	-	1.5000	kg					701	02
21	8888	4	11	22	2026-07-01	9:30:26	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.0000	-	1.0000	kg					701	F7
22	8888	4	11	22	2026-07-01	9:30:34	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.5000	-	1.5000	kg					701	01
23	8888	4	11	22	2026-07-01	9:35:02	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.5000	0.5000	1.0000	kg					701	02
24	8888	0	11	22	2026-07-01	9:35:17	FM	www.fm.com.tw	290s	SS Weighing Indicator	2.0000	0.5000	1.5000	kg	0.999	1.001	kg	Above	701	7E
25	8888	0	11	22	2026-07-01	9:35:20	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.5000	0.5000	1.0000	kg	0.999	1.001	kg	Accept	701	DB
26	8888	0	11	22	2026-07-01	9:35:22	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.5000	0.5000	1.0000	kg	0.999	1.001	kg	Accept	701	DE
27	8888	0	11	22	2026-07-01	9:35:25	FM	www.fm.com.tw	290s	SS Weighing Indicator	1.5000	0.5000	1.0000	kg	0.999	1.001	kg	Accept	701	E2
28	8888	0	11	22	2026-07-01	9:35:38	FM	www.fm.com.tw	290s	SS Weighing Indicator	2.5000	0.5000	2.0000	kg	0.999	1.001	kg	Above	701	86
29	8888	0	11	22	2026-07-01	9:35:41	FM	www.fm.com.tw	290s	SS Weighing Indicator	2.5000	0.5000	2.0000	kg	0.999	1.001	kg	Above	701	81

Alibi Management Report Illustration

Communication Interfaces

- Standard: 2 x RS232
- Multiple Standard and Customized Portrait and Landscape Output Formats with Standard Deviation Support
- Command Protocol and Customized PC Output
- Label Printers Supported:
 - Datscs: LP-50
 - TSC: TDP/TTP-225, TDP/TTP-247, TDP/TTP-345, DH/TH220 Series, DH/TH240 Series, DH/TH340 Series
 - Sbarco: All Models with Serial Port

Versatility, Functionality, and Accuracy are all Built-In

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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 - 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 Converter	- Maximum Load Cell Sensitivity: 4 mV/V - Conversion Speed: 10, 20, 60, 120 times/second Selectable
Max. Tare Range	-Max or -Max ₁ (Subtractive Tare)
Calibration Methods	- Two-point Linearity Calibration - Single-point Accuracy Calibration - Numeric Calibration via Keyboard
Power	- Built-in Rechargeable 6V, 5AH Battery - External 12V DC, 1A Power Adaptor - Charging Circuit: Digital Smart Charging - Built-in Real-Time Clock Backup Battery
Accessories	- Built-in Rechargeable Battery - Universal Power Adaptor
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 2.0/4.0 BLE Module
- 4-Channel Control Relay Board (Factory Installation)
- Bluetooth/Serial Barcode Scanner



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