



290i Multi-Function Indicator



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

Advanced Weighing Performance

- 24-bit Low-Noise Sigma-Delta (Σ - Δ) A/D Converter
- Internal Resolution up to 4.0 million Counts at 20mV
- Selectable AD Conversion Speed 10, 20, 60, 120 times/second
- Support for Single Range, Dual Range, and Dual Interval

Flexible Calibration Methods

- Two-Span Linearity Calibration
- One-Span Calibration
- Numeric Calibration Through Keyboard
- Dealer and User Calibration Access

Large and Clear Display

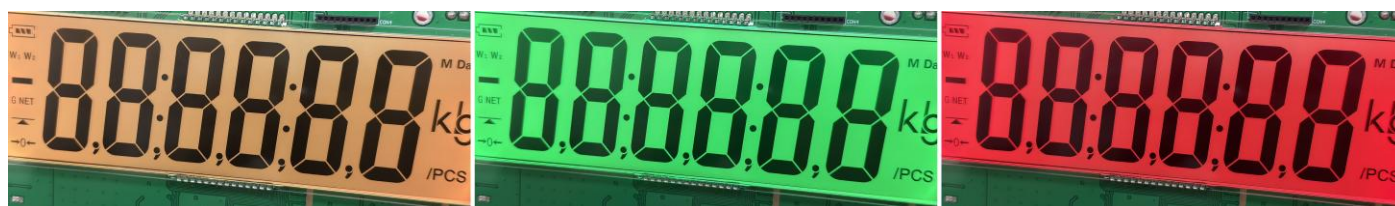
- 6 × 45 mm Huge Size Bold-Type Wide-Angle LCD
- Indicators for Gross, Net, Stable, Zero, Minus, Max₁, and Max₂
- Memory and Data Status Indicators
- Battery Level Indicator
- Tri-Color Backlight with Adjustable Brightness and Color Ratio

Comprehensive Tare and Weighing Functions

- Manual Tare
- Automatic Tare
- Continuous Auto Tare
- Repetitive and Multiple Tare
- Extended Display Mode
- Preset Tare via Numeric Input
- Animal Weighing Mode with Adjustable Filter Speed

Checkweighing Capability

- Static and Dynamic Check Modes
- Configurable Lo and Hi Limits
- Near Zero Function for Dynamic Applications
- Check Result Buzzer Control
- Tri-Color Backlight Indication



Adjustable Tri-Color Check Result Backlight

Versatility, Functionality, and Accuracy are all Built-In

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Communication Interfaces & Methods

- Standard: 2 x RS232
- Bluetooth Module (Optional)
- Wi-Fi Module (Optional)
- Auto Database search
- Command Protocol and Customized PC Output

Memory and Accumulation

- Manual and Automatic Accumulation
- Alibi Transaction Memory
- Calibration and Parameter Set Count Display
- Expiry Date Function

Reporting and Output Control

- Lab 1 to Lab 5 Output Formats
- Customizable Lab 2 Print Format
- Journal and Database Output Modes
- Management Report with Date Range Selection
- Checksum Verification

Customer and Product Management

- Manual Entry of Customer and Product Code
- Barcode Scanner Input
- 100 User-Configurable Production Settings
PLUs Recalled Through Product or Customer Code Scanning

Flexible Transmission Modes

- Manual / Auto 1 / Auto 2 / Auto 3 Print Output
- Continuous/Interval Output to PC and Remote Display
- Command Communication Mode
- Barcode Scanner Input

Label Printing Capability

- Support for Multiple Label Format Groups
- Custom Label Design and Upload
- Multiple Copy Printing
- Statistical Data Output Including Max, Min, Mean, and Standard Deviation
- Printer Integration for LP-50, TSC, and Sbarco

Sys. Seq	Opr	Mode	Mac	MacGp	Date	Time	Ccode	C Description	Pcode	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	Fidelity Measurement	290i	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	Fidelity Measurement	290i	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	Fidelity Measurement	290i	Weighing Indicator	1.5000	-	1.5000	kg					701	02
21	8888	4	11	22	2026-07-01	9:30:26	FM	Fidelity Measurement	290i	Weighing Indicator	1.0000	-	1.0000	kg					701	F7
22	8888	4	11	22	2026-07-01	9:30:34	FM	Fidelity Measurement	290i	Weighing Indicator	1.5000	-	1.5000	kg					701	01
23	8888	4	11	22	2026-07-01	9:35:02	FM	Fidelity Measurement	290i	Weighing Indicator	1.5000	0.5000	1.0000	kg					701	02
24	8888	0	11	22	2026-07-01	9:35:17	FM	Fidelity Measurement	290i	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	Fidelity Measurement	290i	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	Fidelity Measurement	290i	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	Fidelity Measurement	290i	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	Fidelity Measurement	290i	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	Fidelity Measurement	290i	Weighing Indicator	2.5000	0.5000	2.0000	kg	0.999	1.001	kg	Above	701	81

Alibi Management Report Illustration

Options

- Stainless Steel Wall/Desktop Mount Holder
- Built-in Wi-Fi, Bluetooth 2.0 / 4.0 Module
- Built-in 4-Channel Control Relay Board (Factory Installation)
- Bluetooth/Serial Barcode Scanner



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
AD 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 Source	• Built-in Rechargeable 6V, 4AH Battery • External 12V DC, 1A Power Adaptor
Accessories	• Dust Cover • Pillar Mount Holder (φ35 ~ 38mm) • Built-in Rechargeable Battery • Universal Power Adaptor
Packing	• Individually Packed. 36 x 33 x 16cm. Net/Gross = 2.50/2.90kg • Four Units in a Shipping Carton. 68 x 38 x 36cm. Net/Gross = 10.00/13.50kg
Operation Environment	• Temperature: -10°C to 40°C • Humidity: ≤85%, Non-condensing

In the interest of improvement, specifications may change without notice



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