



**190i** is designed for easy operation and equipped with advanced features to meet the requirements of a wide range of applications, such as static and dynamic industrial weighing, piece counting, pre-packing, sorting and packing, shipping, scientific monitoring, and peak measuring, whether used as a standalone unit or incorporated into an integrated weighing system.

**190i** is suitable for industrial applications with high dead load and low load cell utilization.



Equipped with a high-speed microprocessor, innovative program design, a new linearity compensation method, and a wide range of flexible and selectable operation parameters, **190i** delivers exceptionally fast, accurate, and stable performance for both low- and high-resolution applications, from simple to complex tasks, even under extremely heavy workloads.

Reliability and durability are ensured through carefully selected components from renowned manufacturers, together with well-designed and well-planned circuitry.

**190i** always delivers more than expected and is an excellent choice wherever performance, reliability, and flexibility cannot be compromised.



**Adjustable Tri-Color Check Result Backlight**

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

# 190i Multi-Function Indicator

## Functions

- Static Weighing, Medium- to Low-Speed Dynamic Weighing, Piece Counting, Peak Hold, and Animal Weighing
- Support for Single-Range, Dual-Range, and Dual-Interval Operation
- Support for Both Tension and Compression Load and Force Direction
- Near-Zero Weight Value for Dynamic Weighing to Avoid False Signal Output
- Add-Tare-Memory (ATM) and Remove-Tare-Memory (RTM) Function
- Manual, Preset, Auto, Repetitive, and Continuous Tare Operation
- Weight and Quantity Check Mode
- Check Result Control for Accumulation, Data Printout, and Data Output
- Keypad Lock Function

## Operation and Management Features

- Configurable Machine ID, Machine Group, and Operator Number to Enhance Ease of Multi-Scale Applications and Management Records
- Customer and Product Codes Support Numeric Characters When Input through Keypad
- Customer and Product Codes Support Numeric, Alphabetic, and Symbol Characters When Input through Scanner or PC
- Support for External [Zero], [Tare], and [Print/M+] Key Input through Scanner
- Tri-Color Check Result Indication
- Configurable Keypad, Check, and System Buzzer
- Two Independently Configurable Bi-Directional Serial Comports, with Selectable TTL Output for Comport 1
- Support for Inquiry, Setting, and Execution Commands through PC
- All Current Operation Results Output in Database Format to Increase Ease and Efficiency of Data Management, Processing, and Analysis
- Support for Ticket Printers and Label Printers (Datecs LP-50 and TSC TDP-225, TDP-247, TDP-345, TTP-225, TTP-247, TTP-345)
- Selectable Portrait or Landscape Ticket Printout Format
- 6 × 45 mm Large, Bold, Wide-Angle LCD Numeric Digits
- Zero, Gross, Net, Weighing Range, Memory, Battery Level, and Recharge Indicators
- Watchdog System to Prevent Damage Caused by Load Cell Short-Circuit
- Smart Charging Circuits
- Real-Time Clock

## Connectivity

- Two Configurable Bi-Directional Serial Comports
- Maximum Baud Rate: 256,000
- Support for Barcode Scanner for Customer and Product Code Entries
- Optional Built-In 4-Channel Control Relay Board



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# 190i Multi-Function Indicator

## Specifications

|                                     |                                                                                                                                                                                                      |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity and Readability            | <ul style="list-style-type: none"> <li>Free Setting</li> </ul>                                                                                                                                       |
| 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                                                                                                                                           |
| Load Cell Connection                | <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: 4 x 350Ω</li> </ul>                    |
| A/D Converter & Internal Resolution | <ul style="list-style-type: none"> <li>24 bit Low-Noise Delta to Sigma (<math>\Delta</math>-<math>\Sigma</math>)</li> <li>4,000,000 Counts at 20 mV</li> <li>Minimum input per d = 0.05μV</li> </ul> |
| Max. Tare Range                     | -Max for Single Weighing Interval or -Max <sub>1</sub> (Subtractive Tare)                                                                                                                            |
| 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 (φ35~38mm), Built-in Rechargeable Battery, Universal Power Adaptor, Dust Cover                                                                                                   |
| Packing                             | <ul style="list-style-type: none"> <li>Individually Packed. 36 x 33 x 16cm. Net/Gross = 2.50/2.90kg</li> <li>Four Units in a Shipping Carton. 68 x 38 x 36cm. Net/Gross = 10.00/13.50kg</li> </ul>   |
| Operation Environment               | -10 ~ 40°C. Non-condensed. R.H. ≤ 85%                                                                                                                                                                |

***In the interest of improvement, specifications may change prior to notice***

## Options

- Stainless Steel Wall/Desk Mount Holder
- SP-POS58IV & SP-POS88IV Thermal Ticket Printer
- Serial Bar Code Scanner
- RD-DOT Dot Matrix Remote Display
- Built-in 4-Channel Control Relay Board (Factory Installation)



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