FM21*e* + K Series Scale
Digital Weighing Scale Indicator

FM21*e* is built to answer the needs of highly demanding applications in the aspect of transaction & data speed, number of peripheral connection, management data & security, flexibility of operation and flexibility of future expansion. Maximum AD conversion speed up to 480 times per second plus 9 filter strength levels to meet almost all requirements from high-resolution static weighing to high-speed dynamic applications.

User definable PC output protocol means unsurpassed capability to meet all data format requirements from remote displays, production management to ERP systems.

Built-in non-resettable memory to store all details of up to 130,000+ transactions. Daily, monthly and specific period reports can be recalled and generated anytime according to your search criteria.

Independently Configurable Function Modes

- Static & Dynamic Weighing
- Piece Counting
- Action-Tare-Memory (ATM)
- Peak Measuring
- Grading and Sorting up to 10 Set Points and 8
- Grades Checking Function for Weighing, Piece Counting, ATM, Grading, and Sorting Function

Built-In Control Logic

- Static and Dynamic Check
- Inflow and Outflow Control
- Constant Feeding
- Constant Dispensing with Auto Refilling,
- Dual Speed Filling
- Batching up to 8 Ingredients
- Dual Speed Discharge
- Discharge and Refill
- User Programmable Logic for each and individual Relay Output

Displays and Indications

- 1 Primary plus 2 Secondary Displays provide Clear Information about Results, Settings, and Next Target
- Value of the Current Operation
  Tri-Color Check Result Light Bars Present Pin-Point Accuracy about where and how far the Current
- Weight is and away from the Target Value
  Zero, Net, Weight Unit, Memory, Lo Battery, Relay Output and Charge Status Indicators

Connectivity

- Maximum 4 independent configurable comports.
  Maximum Baud Rate = 921600
  - ➤ Hardwire Connection Types (standard) include RS232, RS485 and TTL
  - ➤ Wireless Communication Types (optional)include Bluetooth 2.0 /4.0 and WIFI
- Optional isolated RS232 to Ensure High Speed Data
- Communication even in a High Interference Environment Optional Built-in 8-Channel Control Relay Board.

Versatility, Functionality and Accuracy are always Built-in

Operation Features

- **Primary and Secondary Displays: -**
  - ➤ Display #1: - 6 x 25mm LED Numeric Digits
  - ➤ Display #2: - 6 x 10mm LED Numeric Digits
  - ➤ Display #3: - 6 x 10mm LED Numeric Digits
- **Support Single Range, Dual Range and Dual Interval Operation**
- **Support both Tension and Compression Load / Force Direction**
- **Near Zero Weight Value for Dynamic Weighing to avoid False Signal Output**
- **Repetitive and Continuous Tare Operation**
- **Continuous Tare with Configurable Delay Time before Tare Action**
- **Real Time Clock with Backup Battery**
- **Watchdog System to Prevent Damages Caused by Load Cell Short-circuit.**
- **Configurable Tri-Color Check Result Light Bar**
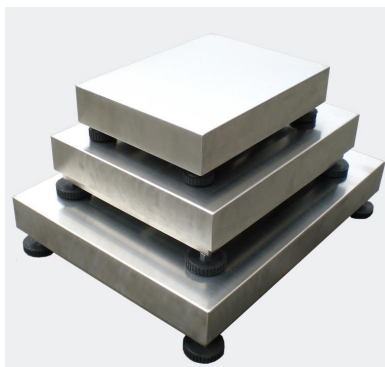- **Configurable Keypad, Check & System Buzzer**

Management Features

- **130000+ Non-Resettable Transaction Memory**
- **Daily, Monthly, specific Period Report Output**
- **Multi Search Criteria for Report Generation**
- **Configurable Machine ID, Machine Group and Operator Number to Enhance Ease of Multi-Scales Applications and Management Records**
- **Customer & Product Code Input through Serial Scanner, Keypad or Barcode Reader**
- **Customer & Product Code Support Numbers, Alphabets and Selected Symbols**
- **Quick Access PLUs for Weight Limits, Quantity Limits and Preset Tare Values**
- **Direct PLUs for Customer & Product Codes**
- **Check Result Control for Accumulation, Data Printout & Data Output**
- **Keypad Lock Function**
- **Support Inquiry, Setting and Execution Commands from PC**
- **All Current Operation Results Output in Data Base Format Increases Ease & Efficiency of Data Management, Processing & Analysis**
- **Support Ticket Printer and Label Printer (Datecs LP-50 & TSC TDP-225, TDP-247, TDP-345, TTP-225, TTP-247, TTP-345)**
- **Selectable Portrait / Landscape Ticket Printout Format**
- **10 x Built-in Predefined Continuous / Internal Output Protocol**
- **User Programmable Continuous / Internal Output Protocol**

K Series Scale:

Key Features

- **#304 Stainless Steel Construction, Platter and Pillar (Optional)**
- **Equipped with OIML C3 Approved 17-4PH Stainless Steel Load Cell**
- **Complete Sealed Design, to Prevent Liquid Penetrate into Platform Structure**
- **Rugged Structure for Harsh and Rugged Environment**
- **Overload Protection Devices to Withstand Shock and Overloads**
- **Safe Overload = 150% plus**
- **Ultimate Overload = 200% plus Adjustable Feet and Bubble Level Included**

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FM21*e* Digital Weighing Indicator Scale

Model No.	Capacity (kg)	Readability (kg)	Platform Dimension (mm)
FM21e-30K	30	5g	420 x 520mm
FM21e-60K	60	10g	
FM21e-150K	150	20g	
FM21e-300K	300	50g	
FM21e-30K	30	5g	500 x 600mm
FM21e-60K	60	10g	600 x 600mm
FM21e-150K	150	20g	
FM21e-300K	300	50g	
FM21e-60K	60	5g	600 x 800mm
FM21e-150K	150	10g	500 x 700mm
FM21e-300K	300	20g	900 x 900mm
FM21e-500K	500	50g	
Operating Environment	0~40°C (32~104°F) Non Condensing R.H. ≤85%		

Specifications subject to change prior to notice

Options

- **Stainless Steel Wall/Desk Mount Holder**
- **SP-POS58IV & SP-POS88IV Thermal Ticket Printer**
- **LP-50, TDP-225, TTP-225, TTP-247, TTP-345 Label Printer**
- **Serial Barcode Reader**
- **WM Wireless Communication Module**
- **RD-DOT Dot Matrix Remote Display**
- **Bluetooth 4.0BLE Module**
- **Bluetooth 2.0 Module**
- **Isolated RS232**
- **Built-in 8-Channel Control Relay Board (Factory Installation)**
- **WIFI Module**
- **DPP-250 Bluetooth Thermal Printer**

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