

FM18

Digital Weighing indicator



FM18 rewrites the requirements of being a powerful indicator. It contains nearly all the features and functions which static and simple dynamic industrial weighing applications need.

Equipped with a 24 bit Low-Noise Δ - Σ Analog-to-Digital Converter, special linearity compensation method plus all other state-of-the-art technologies applied. These enable FM18 to provide fast, stable and almost error-free weighing result anytime when needed.



True 6-wire load cell compensation system, easily drive up to 8 x 350 Ω , runs at 1.6 million internal counts plus all the built-in function, these are the foundation which make FM18 good for nearly all static and mid to low speed dynamic weighing applications.

FUNCTIONS

- Weighing
- Checkweighing Function
- Piece Count Mode with Check Function
- Percentage Mode with Check Function
- Animal Weighing
- User Programmable Check Functions Buzzer Output
- Memory Accumulation
- Pre-set Tare
- Independent and User Programmable Print Format for Weighing, Piece Count, Percentage Mode
- Independent and User Programmable Data Format for Checkweighing, Piece Checking, Percentage Checking
- Built-in Inflow and Outflow Control Logic
- Built-in Near Zero Logic for Dynamic Weighing Applications
- Support Ticket and Label Printing
- Support Q&A with other Peripherals
- Support Direct Control by External Peripheral

- User Selectable Parameters: -
 - ♦ 6 x Auto Power Off Time
 - ◆ 4 x Filter Intensity Mode
 - ♦ 3 x Backlight Mode
 - ◆ 2 x Selectable Auto Tare Function
 - ◆ 4 x RS232 Data Output Baud Rate
 - ♦ 4 x Output Mode
 - ◆ 3 x Data Format
 - ♦ 3 x M+ Mode
 - ◆ 3 x Data Output Mode
 - ♦ 4 x Data Transmission Time Interval
 - ♦ 8 x Number of Print Copy
 - ♦ 6 x Output Band Rate
 - ♦ 7 x Initial Zero Range
 - ♦ 7 x Manual Zero Range
 - ♦ 6 x Auto Zero Tracking Range
 - ♦ Bi-Directional Communication Through RS232 or TTL Interface

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KEY FEATURES

- 24 bit Low-Noise Delta to Sigma to Delta (Δ-Σ) Analog-to-Digital Converter
- **Support Single or Dual Weighing Range** Mode
- Free Capacity and Division Setting
- kg & Ib Conversion (Single Weighing Range Mode only)
- True 6-wire (with Remote Sense) Load Cell **Compensation System**
- Power up to 8 x 350Ω Load Cells or 16 x 700Ω Load Cells
- Supports 4-wire and 6-wire Load Cell **Connections**
- Real Time Clock
- Linearity Compensation ON or OFF
- Independent Zero Calibration.
- Auto or User Programmable Odd Weight Calibration

- Calibration and Metrological Control / Access by Hardware or Software
- Non-Resettable Trailer Count to Record **Calibration and Metrology Parameters** Changes.
- **Gravity Compensation via Key Board**
- 6 x 1-inch Wide Angle LCD Numeric Digits
- Capacity Tracking Bar to Show Applied & **Remaining Weighing Capacity**
- **Battery Protection Features and Circuits**
- Equipped with RS232, TTL Relay Output, Wireless Communication Interfaces/TTL **RS232**
- Backlight, Rechargeable Battery, Power Adaptor and Pillar (ϕ 35~38mm) Mount **Holder Included**

SPECIFICATIONS

Maximum Capacity	Single Range Mode:-	Dual Range Mode: -
	Max = 1 ~ 999,999 (kg or	• $Max_1 = 1 \sim 999,998 (kg or lb)$
	lb)	• $Max_2 = 2 \sim 999,999 \text{ (kg or lb)}$
External Resolution (n _{max}) [(Max / Scale Interval (d)]	 Standard = Below 30,000 High = 30,000 ~ 75,000 Ultimate = 300,000 	
Weight Units	Metric (kg and g) and Imperial (lb)	
Internal Resolution	1,600,000 Counts	
Tare Range	- Max (Subtractive Tare)	
A/D Sampling Speed	15 times/ second	
Max. Measuring Range	15 mV	
Power Voltage Requirements	Built-in Rechargeable Battery = 6V DC External Power Adaptor = 9 ~ 12V DC, 500mA+	
Load Cell Excitation Voltage	5V DC	
Minimum Load Cell Impedance	350Ω	
Maximum Load Cell Impedance	1000Ω	
Load Cell Connection	Supports 4-wire and 6-wire Load Cell System	
Maximum Load Cell Connection	12 x 350Ω Load Cells or 24 x 700Ω Load Cells	
Operation Environment	-10 ~ 40°C. Non-condensed. R.H.≦ 85%	
Spec	ifications subject to change prior to	notice

OPTIONS

- **RELAY-4, 4-Channels Relay Module**
- **WM Wireless Communication Module**
- Stainless Steel Wall/Desk Mount Holder
- **SP-POS58EZ Thermal Printer**
- **RD-DOT Dot Matrix Remote Display**
- **LP-50 Label Printer**





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