

- Tare : Zero to Full weighing range
- Span Adjustment :
FMA...Manual Operation Span Adjustment with external calibration weight
FMAR...Semi Automatic Span Adjustment with internal calibration weight
- Over Error : o-Err shown when Full weight range+9e more digits over
- Temp and Humidity range : 5~35°C, Up to 80%rH(without the dew condensation)
- Power Source : AC adapter input 100-240VAC / DC12V
- Output : RS-232C (Dsub 9P)
- Protection Rating : IP65

FMA series
Product Video



External weight types

Model Name	FMA22K0.1S	FMA33K0.1S	FMA62K1S	FMA62K0.1S
Capacity(Max)	22kg	33kg	62kg	62kg
Readability	0.1g	0.1g	1g	0.1g
Non-linearity	±0.2g	±0.2g	±1g	±0.2g
Repeatability(σ)	0.1g	0.1g	0.1g*	0.1g
Pan size	W350mm x D400mm			
Dimension(WDH)	350 x 426 x 175mm (350 x 482 x 700mm when pole option installed)			



Display in separate (Standard)

Internal weight types

Model Name	FMA22K0.1SR	FMA33K0.1SR	FMA62K1SR	FMA62K0.1SR
Capacity(Max)	22kg	33kg	62kg	62kg
Readability	0.1g	0.1g	1g	0.1g
Non-linearity	±0.2g	±0.2g	±1g	±0.2g
Repeatability(σ)	0.1g	0.1g	0.1g*	0.1g
Pan size	W350mm x D400mm			
Dimension(WDH)	350 x 426 x 175mm (350 x 482 x 700mm when pole option installed)			

*with 0.1g readability on inspection



In case when Integration Bracket for Display (optional) is attached

Options

Models	Option name
FMA-DU*1	Under weighing hook
FMA-LM*2	Relay output (Dsub 25P)
FMA-R4*3	RS-422A output (Dsub 9P)
FMA-BT*4	Internal Rechargeable battery (12-hour charge, 10-hour drive)
FMA-BK	Display bracket
FMA-PK	Pole Kit
FMA-SC5	Extended sale cable 5m
FMA-SC10	Extended scale cable 10m

- When FMA-DU option is installed, it is not IP65 compliant *1
- FMA-DU option cannot be used for legal for trade purposes *1
- FMA-LM and FMA-R4 options cannot be used together *2
- FMA-LM and FMA-BT options cannot be used together *2
- Selecting FMA-R4 option changes RS-232C output to RS-422A *3
- Battery operation time is measured with the backlight off *4
- When using a converter, an RS-232C cross cable is required *5

Peripheral equipment

Models	Option name
CBM-910II	Standard Printer
SFS-1	Foot switch for tare
FMA-USBC*5	RS232C-USB converter
FMA-ETHC*5	RS232C-Ethernet converter (with AC adaptor)



In case when Pole Kit (optional) is attached

Consistent Accuracy for any process in manufacturing
High-Precision Weighing Platform

FMA series



SHINKO DENSHI CO., LTD.

Head office
Tokyo:1-52-1 ITABASHI, ITABASHI-KU, TOKYO 173-0004
Phone: +81-3-5944-1643 Fax: +81-3-6905-5526
[Development /Manufacturing] Tsukuba Plant
URL : <https://www.vibra.co.jp/global/>



Distributed by:



The contents of this catalogue are subject to change due to modifications and/or other reasons.

3B.2505

0.1g High-Precision

0.1g readability at 62kg
Resolution of 1/620,000

Highly Shock Resistant

Passed 30kg Sandbag Drop Tests from 20cm

Highly Vibration Resistant

Cut Noise Factor 90%

4 Main Features

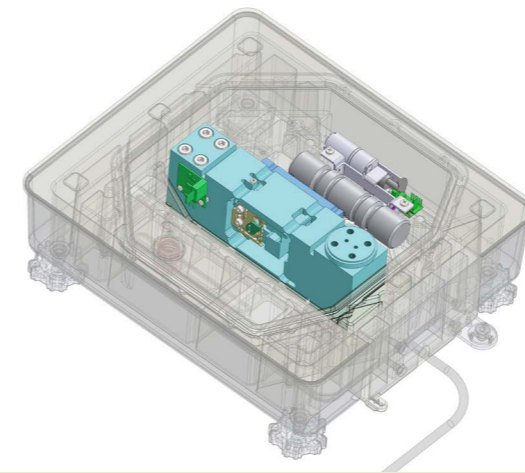
IP65

IP65 dustproof and waterproof

·Counting mode ·Percent mode ·Carat mode ·Coefficient mode ·Standby mode ·Comparator function ·Adding function
·Bar graph ·Semi-auto Span Adjustment (FMAR only) ·Time/Calendar ·Buzzer setting ·RTS free software ·Various optional items

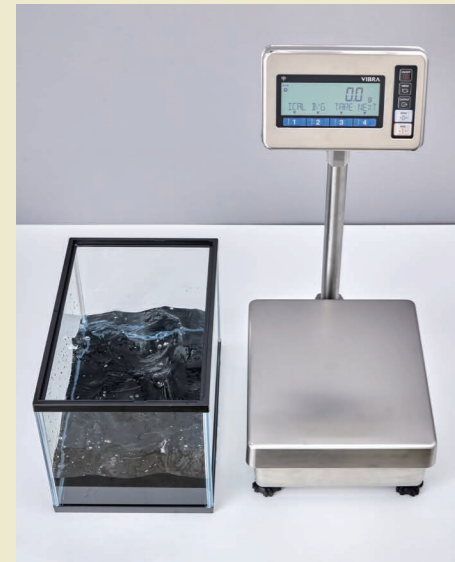
High-Precision

Maximum capacity of 62 kg with a minimum display of 0.1 g, achieving 10 times the precision of conventional models. Accurately detects even slight changes in weight, making it ideal for weighing heavy objects or items with substantial tare weight, meeting diverse weighing needs.



Equipped with a newly developed sensor and built-in calibration weigh

Newly developed tuning fork-type force sensor enables high precision and durability, previously unattainable with conventional structures. Regular calibration with built-in weight ensures accurate measurements, boosting productivity and stabilizing product quality.



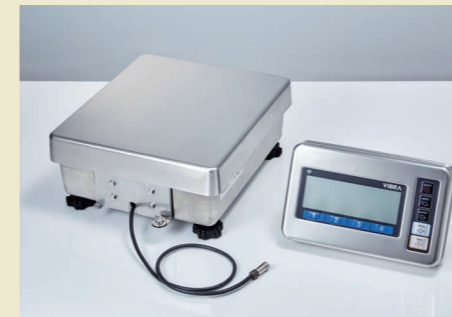
Highly Vibration Resistant

Equipped with newly developed sensor reduces external vibrations effects. Minimizes vibration interference from factory equipment to 1/10 of conventional models, enhancing overall production line efficiency and supporting highquality manufacturing.



Highly Shock Resistant

Redesigned housing structure for impact resistance, successfully passing a 30 kg drop test from 20 cm above the weighing pan. Maintains high precision even under unexpected impacts.

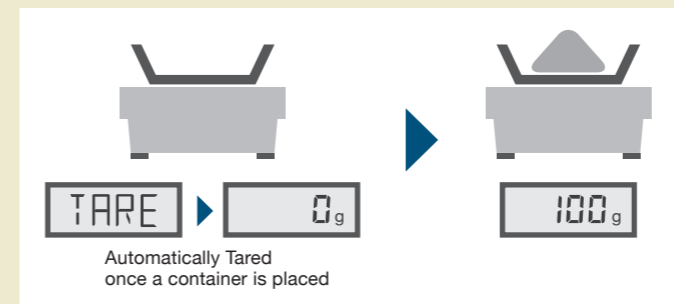


A housing design focused on ease of cleaning and integration

By minimizing irregularities in the housing and adopting an IP65-rated stainless steel casing, we have achieved high cleanliness. The use of connector connections between the display and weighing units greatly improves cable routing and device integration flexibility compared to previous models.

Comfortable weighing operations with the automatic tare function

It automatically performs tare when a container is placed, eliminating button operations. It reduces risk of human error, improves efficiency of repetitive weighing tasks, and lightens operator's workload.



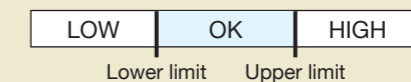
2 types of comparator functions

The weighing results are automatically evaluated and compared with the preset values

① Absolute value determination (two-point setting method)

Set lower and upper limits

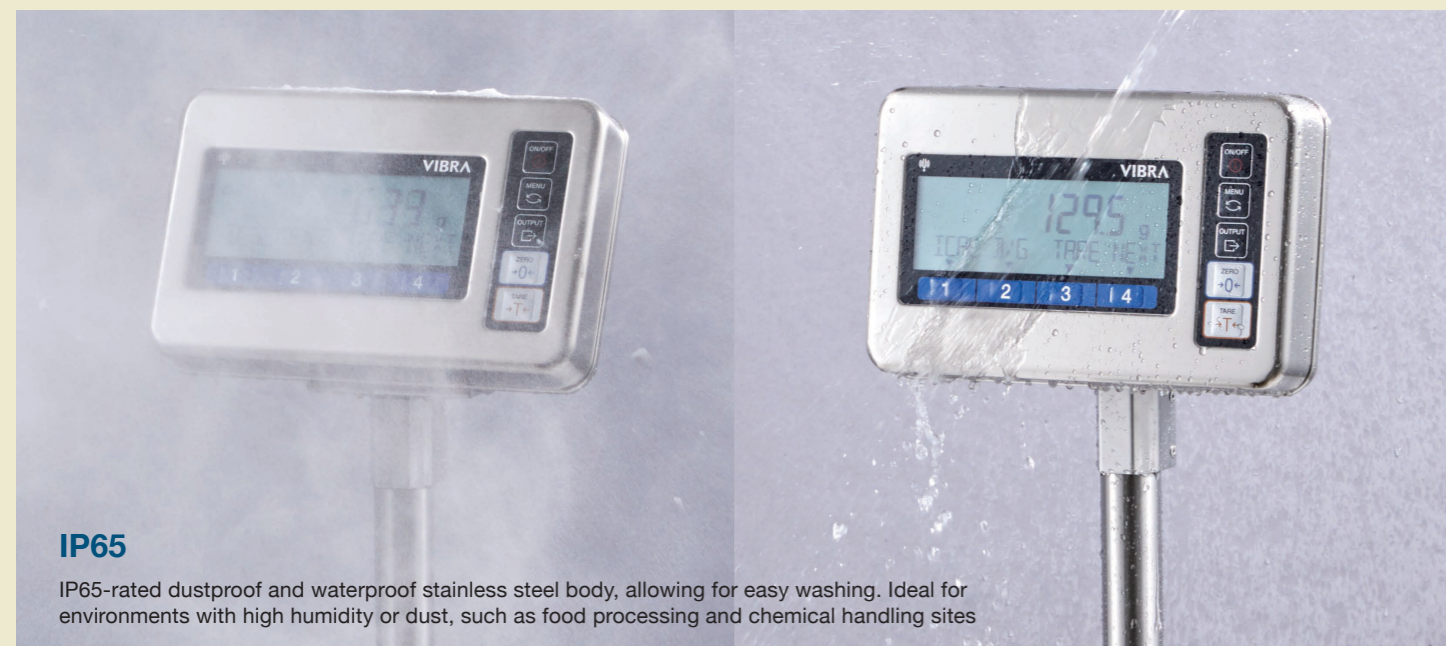
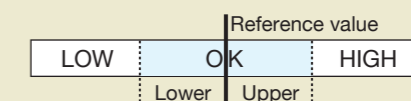
- If weight of the measured item is below the lower limit : LOW
- If exceeds the upper limit : HIGH
- Otherwise (or if the value is equal) : OK



② Relative value determination (three-point setting method)

Set the reference value, lower limit width, and upper limit width.

- If weight of the measured item is below (reference value - lower limit width): LOW
- If exceeds (reference value + upper limit width): HIGH
- Otherwise (or if the value is equal): OK



IP65

IP65-rated dustproof and waterproof stainless steel body, allowing for easy washing. Ideal for environments with high humidity or dust, such as food processing and chemical handling sites

A wide range of options and peripherals

We offer a wide range of options to suit your needs and environment, including relay output, RS-422A output, converters (USB or Ethernet), battery operation, pole kits, and more.