

LFseries

Laboratory



Cross-Over sliding windshield

VIBRA LF series is equipped with "cross-over sliding" windshield which enables the user to open the right-side door by left-side knob, vice versa. The user can handle the weighing sample with right hand while he/she operates the door with left hand. It makes weighing operation in lab routines less time-consuming.



Density Measurement

α -Check

The laboratory/factory environment is changing every moment, and it affects the conditions of balance.

In α -check system, VIBRA LF series gives diagnosis menu of its own conditions. Among check-items repeatability is the most fundamental parameter in laboratory balance, and the user can easily check it in this system.



Easy RES

Stability and response speed should be correctly chosen according to environment and weighing objects. "Easy RES" offers the balance users very easy and simple way to change response speed. He/she can change response speed in three levels just with out-touch of SET key.





Specifications

Semi-micro balance Model name	LF 135RCE	LF 225DRCE		LF 135R	LF 225DR	
Capacity	130g	92g	220g	130g	92g	220g
Readability (d)	0.01mg	0.01mg	0.1mg	0.01mg	0.01mg	0.1mg
Verification intervals (e)	1mg	1mg	1mg	-	-	-
Repeatability	0.02mg	0.02mg	0.1mg	0.02mg	0.02mg	0.1mg
Linearity	±0.03mg	±0.03mg	±0.2mg	±0.03mg	±0.03mg	±0.2mg
Stabilization time	5.0 sec.	5.0 sec.	3.0 sec.	5.0 sec.	5.0 sec.	3.0 sec.
Pan size	80mm dia	80mm dia		80mm dia	80mm dia	
Calibration	Internal & External	Internal & External		Internal & External	Internal & External	

Analytical balance Model name	LF 124RCE	LF 224RCE	LF 124R	LF 224R
Capacity	120g	220g	120g	220g
Readability (d)	0.1mg	0.1mg	0.1mg	0.1mg
Verification intervals (e)	1mg	1mg	-	-
Repeatability	0.1mg	0.1mg	0.1mg	0.1mg
Linearity	±0.2mg	±0.2mg	±0.2mg	±0.2mg
Stabilization time	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.
Pan size	80mm dia	80mm dia	80mm dia	80mm dia
Calibration	Internal & External	Internal & External	External	External

OIML class I approval is under working for "CE" models.



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High Class Semi-micro and Analytical Balance

For Lab Professionals who Create the Distinguished Achievement

ViBRA LF series provides everything lab professionals need for daily weighing works. With 0.01mg readability up to 130g weighing range and 0.1mg up to 220g, the user can experience reliable measurement operation in wide range of weighing applications ... simple weight measurement, percentage weighing, density measurement, etc... In every scene, ViBRA LF series promises excellent weighing performance which leads lab professionals to distinguished achievements.



Common Specification

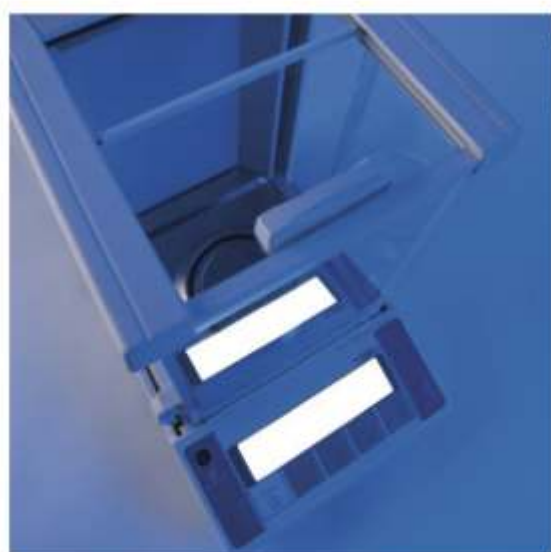
Measuring system	: Electro-magnetic force compensation sensor
Output	: RS232C (D-sub 9p), USB
Tare	: Full weighing range
Display	: Back-lit LCD (brightness adjustable in three levels)
EC type approval	: under working for class 1 approval

*For options, please see page 41.



Density Measurement

The regular calibration is highly important to assure the reliable weighing result. "Se-CAL" function in VIBRA LF series performs automatic calibration. When elapsed time or temperature shift reach to defined value, "Se-CAL" carries out the calibration fully automatically. The calibration record can be stored in the balance and output later on.



Bright LCD back light

With clear and bright back-lit LCD, the user can easily read the indication in the display. It reduces the reading errors. The brightness of back-lit can be adjusted in three levels.



Statistics for lab and manufacturing

Not only individual weighing result but also statistic values are frequently required in lab and manufacturing process. VIBRA LF series provides both of them. It has the function to automatically calculate the various statistical data, and to easily output to printer and PC.



Connection to outside devices

VIBRA LF series has RS232C and USB as standard and can be easily connected to the printer, PC and other outside devices. You can record the weighing results in printed and/or electric forms.