ViBRA® Measure the Future

Specifications

EXTERNAL WEIGHT MODELS

Model ※1	LNA 623	LNA 1202	LNA 2202	LNA 3202	LNA 4202	LNA 6202	LNA 10002	LNA 15001	LNA 21001	LNA 31001
Capacity	620g	1200g	2200g	3200g	4200g	6200g	10000g	15000g	21000g	31000g
Read-out(d)	0.001g	0.01g					0.05g	0.1g	0.1g	
Verification(e) ※2	0.01g	0.1g					—	1g	1g	
Repeatability(s)	0.001g	0.01g					0.05g	0.1g	0.1g	
Non-Linearity(typ.)	±0.001g	±0.01g					±0.05g	±0.1g	±0.1g	
Pan size	120×140mm	200×200mm							220×250mm	
Calibration	with external weight only									
Dimensions	330×220×190mm (including windshield)	333×220×88mm							330×220×111mm	
Weights	approx. 3.5kg	approx. 4.0kg							approx. 8.5kg	

INTERNAL WEIGHT MODELS

Model ※1	LNA 623R	LNA 1202R	LNA 2202R	LNA 3202R	LNA 4202R
Capacity	620g	1200g	2200g	3200g	4200g
Read-out(d)	0.001g	0.01g			
Verification(e) ※2	0.01g	0.1g			
Repeatability(s)	0.001g	0.01g			
Non-Linearity(typ.)	±0.001g	±0.01g			
Pan size	120×140mm	200×200mm			
Calibration	with internal and external weight				
Dimensions	330×220×190mm (including windshield)	333×220×88mm			
Weights	approx. 4.0kg	approx. 6.0kg			

※1 followed by "CE" for Approval Type
※2 for Approval Type

Options

LNALM	Relay contact
LNAUH	Under weighing hook (1200g-15000g)
LNAR4	RS422A output
LNADK	Density measurement kit

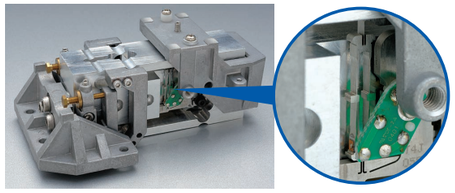
Common Specification

Power source : AC120/230V, DC12V
Output : RS232C (2 outputs)
Measuring system : Tuning-fork frequency system
Tare : Full weighing range
Display : Fluorescent display

What makes the tuning-fork sensor so precise?

The tuning-fork sensor measures force or mass by gauging changes in oscillation frequencey when a load is applied to a long, narrow vibrator, and it digitally outputs the readings.

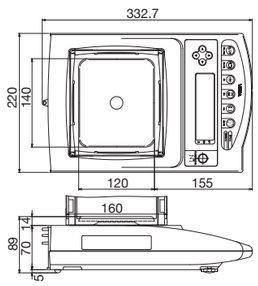
Unlike load cell or electromagnetic systems, the tuning-fork sensor does not rely on material distortion, electromagnetic force, heavy power cunsumption, or A/D converters, so its inherent margin of error is extremely small, and its high precision can be maintained for a long time.



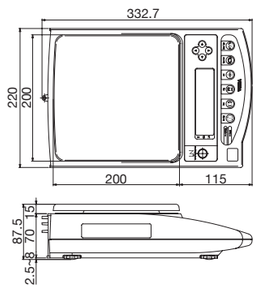
Double-Ended tuning fork (DETF) vibrator

Dimensions

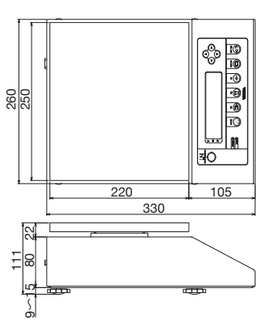
■LNA 623(R)



■LNA 1202(R)
■LNA 2200(R)
■LNA 3202(R)
■LNA 4202(R)
■LNA 6202
■LNA 10002
■LNA 15001



■LNA 21001
■LNA 31001



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

SHINKO DENSHI CO., LTD.

SHINKO DENSHI CO., LTD.
1-52-1 ITABASHI, ITABASHI-KU, TOKYO
173-0004, JAPAN
TEL : +81-3-5944-1643 FAX : +81-3-6905-5526
URL : http:// www.vibra.co.jp/global

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Sophisticated Balance, the Professionals's Choice

ViBRA® Measure the Future

LNA Series

Complete weighing solution with wide range and much applications

Statistic function for quality control use

Comfortable operation in quick response and stable indication

For laboratory, light&heavy industry, jewelry shops, etc...

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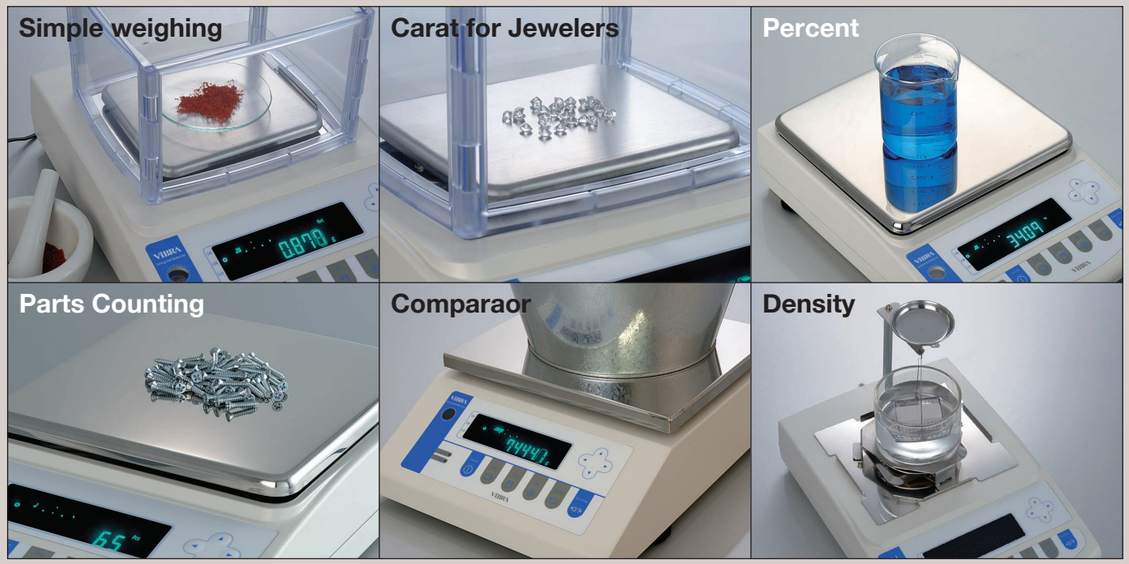
SHINKO DENSHI CO., LTD.

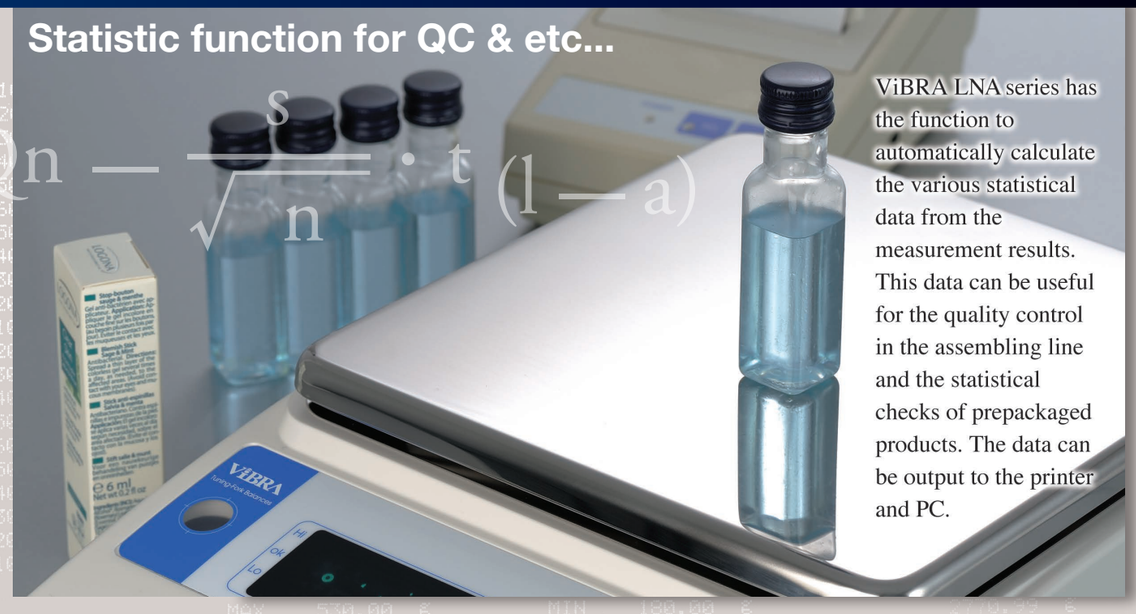
PRECISION TUNING-FORK BALANCE

Sophisticated Balance, the Professional's Choice

ViBRA LNA series always offers you the complete weighing solution. The capacity ranges from 620g to 31kg, the readability from 1mg to 0.1g.
The advantages like quick response, clear fluorescent display, tough housing, stylish design... ViBRA LNA series can be suitable for every occations from laboratory, light&heavy industry, and jewelers.



Statistic function for QC & etc...



ViBRA LNA series has the function to automatically calculate the various statistical data from the measurement results. This data can be useful for the quality control in the assembling line and the statistical checks of prepackaged products. The data can be output to the printer and PC.

Fluorescent display, clearly visible

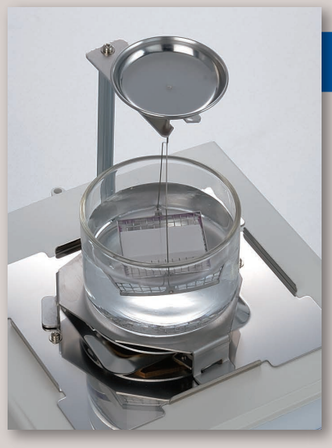
The large fluorescent display is clearly visible. It can make it easy to operate the balance even in the dark location.

Quick response and stable indication

The quick response and the stable indication are important for almost all the weighing operations. ViBRA LNA series promises you the quickness and stableness so that it can make the measurement works much more efficient and less time-consuming.

Accurate measurement by appropriate calibration

It is highly important to to keep the accuracy of the balance by calibration. The procedure of the calibration is sometimes bothering, but in ViBRA LNA series, you can adjust the balance with one-touch of CAL key (internal weight model only).



Density measurement mode

To measure the density of the object is one of the most typical applications for the precision balance. ViBRA LNA series offers you the function to easily calculate the density from the measurement results.
* the density measurement kit in the image is option.

Connection to the outside devices

ViBRA LNA series has RS232C as standard (two outputs) and can be easily connected to the printer, PC. You can keep the weighing results in the printed and/or electric forms.