

Complete weighing solution with wide range and much applications

Statistics function for quality control use

Comfortable operation in quick response and stable indication

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

SHINKO DENSHI CO., LTD.

## PRECISION TUNING-FORK BALANCE



### Sophisticated Balance, the Professional's Choice

ViBRA LN series always offers you the complete fluorescent display, tough housing, stylish weighing solution. The capacity ranges from 220g design... ViBRA LN series can be suitable for to 31kg, the readability from 1mg to 0.1g.

every occations from laboratory, light&heavy The advantages like quick response, clear industry, and jewelers.



## Fluorescent display, clearly visible

Statistics function for QC & etc...

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



mode

Connection to the outside devices

ViBRA LN series has RS232C as

standard (two outputs) and can be

easily connected to the printer, PC.

the printed and/or electric forms.

You can keep the weighing results in

**Density measurement** 

To measure the density of the object is one

precision balance. ViBRA LN series offers

of the most typical applications for the

#### Quick response and stable indication

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



ViBRA LN series has

the various statistical

measurement results.

This data can be useful

for the quality control

in the assembling line

products. The data can be output to the print

and the statistical checks of prepackaged

data from the

tically calculate

### Accurate measurement by appropriate calibration

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



## **Specifications**

INTERNAL WEIGHT MODELS



#### EXTERNAL WEIGHT MODELS

Model	LN 223CE	LN 323CE	LN 423CE	LN 623CE	LN 1202CE	LN 2202CE	LN 3202CE	LN 4202CE	LN 6202CE	LN 8201CE	LN 12001CE	LN 15001CE	LN 21001CE	LN 3100
Capacity	220g	320g	420g	620g	1200g	2200g	3200g	4200g	6200g	8200g	12000g	15000g	21000g	31000
Read-out(d)	0.001g				0.01g					0.1g				
Verification(e)	0.01g				0.1g					1g				
Repeatability(s)	0.001g				0.01g					0.1g				
Non-Linearity(typ.)	±0.001g				±0.01g					±0.1g				
Pan size	120×140mm				200×200mm					20	00×200m	220×2	250mm	
Calibration	with external weight only													
Dimensions	330×220×190mm (including windshield)				333×220×88mm					330×220×88mm 330×220×111				×111n
Weights	Approx. 3.5kg			Approx. 4.0kg					Approx. 4.0kg Approx. 8.5kg Approx. 9.					

#### Options

LNBT	Rechargeable battery
LNLM	Relay contact
LNUH	Under weighing hook
LNBZ	Buzzer output
LNR4	RS422A output
LNDK	Density measurement kit

#### **Common Specification**

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

Weighing units : g, kg, ct EC type approval: available for all models (I & II)

## frequencey when a load is applied to a long, narrow vibrator, and it digitally outputs the readings.

The tuning-fork sensor measures force or mass by gauging changes in oscillation

What makes the tuning-fork sensor so precise?

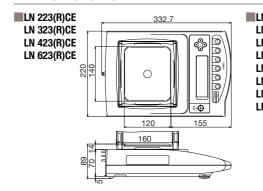
Unlike load cell or electromagnetic systems, the tuning-fork sensor does not rely on material distortion.

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



**ViBRA**®

#### **Dimensions**



LN 4202(R)CE LN 6202CE LN 8201CE LN 12001CE

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

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