# **Specifications**



# INTERNAL WEIGHT MODELS

Model	LN 223RCE	LN 323RCE	LN 423RCE	LN 623RCE	LN 1202RCE	LN 2202RCE	LN 3202RCE	LN 4202RCE		
Capacity	220g	320g	420g	620g	1200g	2200g	3200g	4200g		
Read-out(d)		0.0	01g		0.01g					
Verification(e)		0.0	)1g		0.1g					
Repeatability(s)		0.0	01g		0.01g					
Non-Linearity(typ.)		±0.0	001g		±0.01g					
Pan size		120×1	40mm		200×200mm					
Calibration	with internal and external weight									
Dimensions	33	0×220×190mm (i	ncluding windshi	eld)	333×220×88mm					
Weights		Approx	c. 3.5kg		Approx. 4.0kg					

## **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 31001CE
Capacity	220g	320g	420g	620g	1200g	2200g	3200g	4200g	6200g	8200g	12000g	15000g	21000g	31000g
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	200×200mm 220×25			50mm		
Calibration	with external weight only													
Dimensions	330×220×190mm (including windshield)				333×220×88mm				330×220×88mm 330×220×111mn					
Weights	Approx. 3.5kg					Approx. 4.0kg				Approx. 4.0kg Approx. 8.5kg Approx. 9.5kg				

## **Options**

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

# **Common Specification**

: AC120/230V, DC12V : RS232C (2 outputs)

: Tuning-fork frequency system Measuring system

: Full weighing range Display : Fluorescent display

: g, kg, ct

EC type approval: available for all models (I & II)

# 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,

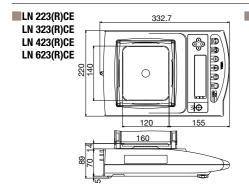
electromagnetic force, heavy power cunsumption, or A/D converters, so its inherent margin of error is extremely small, and its high precision can be maintained for a long time.

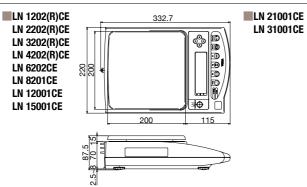


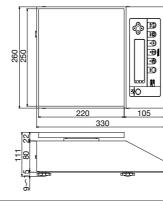
LN 31001CE



# **Dimensions**







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

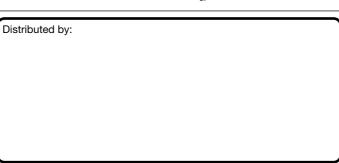
# SHINKO DENSHI CO., LTD.

SHINKO DENSHI CO., LTD.

3-9-11 YUSHIMA, BUNKYO-KU, TOKYO 113-0034 TEL: 81-3-3835-4577 FAX: 81-3-5818-6066

URL: http://www.vibra.co.jp/global/

E-mail: shinko@vibra.co.jp





Complete weighing solution with wide range and much applications

Statistics function for quality control use



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





SHINKO DENSHI CO., LTD.

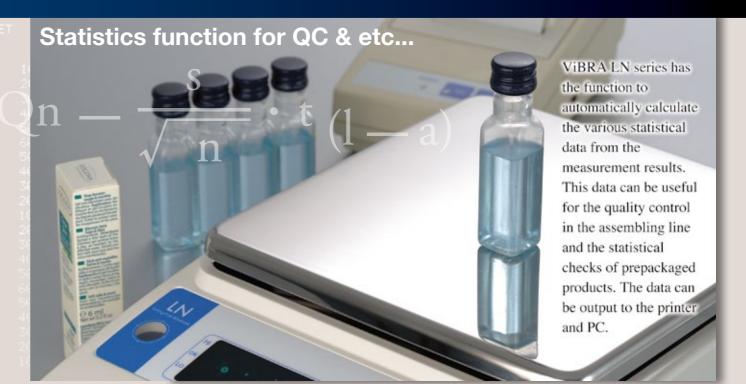
# PRECISION TUNING-FORK BALANCE

# Sophisticated Balance, the Professional's Choice

ViBRA LN series always offers you the complete weighing solution. The capacity ranges from 220g to 31kg, the readability from 1mg to 0.1g.

fluorescent display, tough housing, stylish design... ViBRA LN series can be suitable for every occations from laboratory, light&heavy industry, and jewelers.





# Fluorescent display, clearly visible

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



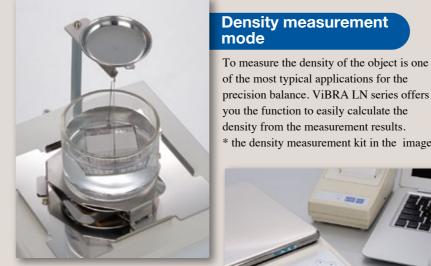
# Quick response and stable indication

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-consuming.



# 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).



# Connection to the outside devices

ViBRA LN 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.

