



Catalogue

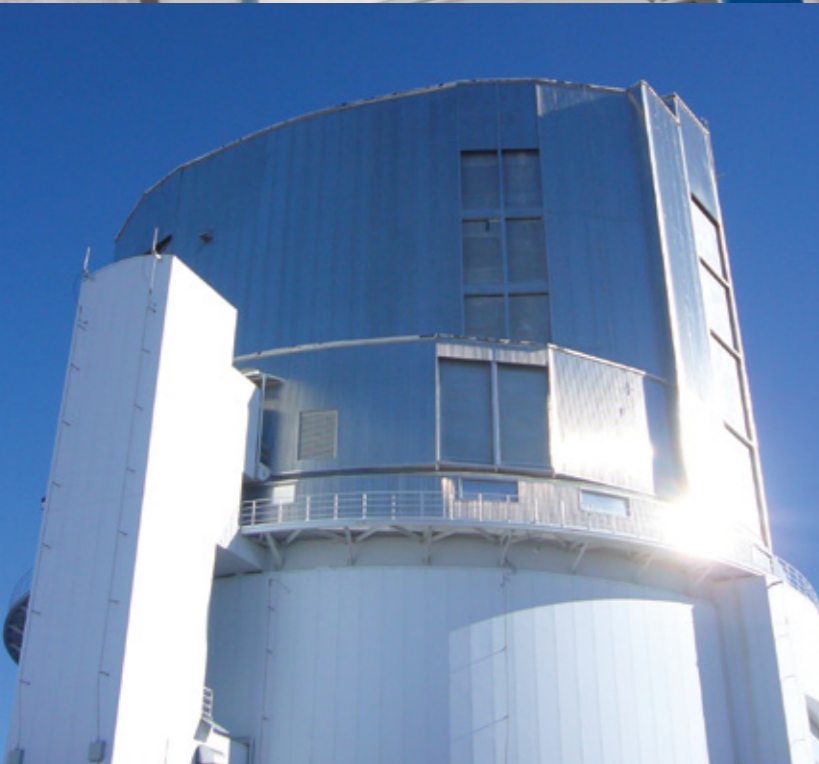
Precision Balance



ISO 9001
JQA-2834
TSUKUBA



TECO
ISO 14001:2004
ER-00130



Sophisticated Weighing Solution for Lab Professionals

SHINKO DENSHI is one of the leading suppliers of laboratory/precision balances in the world. We provide high-quality electronic balances to wide range of business field, laboratory, pharmaceuticals, manufacturing industry, jewelers, etc...

Every kind of business market is getting more and more diversified vertically and horizontally. Furthermore time and cost efficiency are highly requested there. In this complicated business structure nothing is possible without accurate and precise measurement. It is key factor for every lab and industry professional who aims to achieve excellent performance.

As leading supplier of laboratory/precision balances our mission is to provide the accurate and precise weighing solution in sophisticated way for every professionals in all business field. For this mission we continuously devote ourselves to the development of innovative and original products in collaboration with business partners all over the world.

Index

Index	3		
Application index	4		
LF series High Class Semi-micro and Analytical Balance		6	
LN series High Class Precision Balance		10	
HT series Standard Analytical Balance		14	
AJ series Standard Precision Balance		18	
AB series Basic Precision Balance		22	
MD series Moisture Balance		24	
CJ series High Class Precision Balance		28	
SJ series Basic Precision Balance		30	
CT series Carat Balance		31	
GZ series Precision Ex-proof scale		32	
HJK series Precision Industrial Scale		34	
FJ series Precision Platform Scale		36	
UF series Built-in weighing unit		38	
DFB series Built-in weighing unit		39	
Accessories		40	
Options		41	
Technology		42	
About us		43	

"Repeatability" in each specifications table in pp.6-36 is described as standard deviation.
"Linearity" and "Stabilization time" in each specifications table in pp.6-36 is described as typical values.

Application Index

Laboratory

LF Series LN Series HT Series AJ Series

Pharmacy

AJ Series AB Series SJ Series

Moisture Analysis

MD Series

Parts counting

LN Series AJ Series AB Series HJK Series

Hazardous area

GZ Series

Built-in weighing unit

UF Series DFB Series

Transportation Weighing sensor

Chemical

LN Series CJ Series GZ Series HJK Series FJ Series

Industry

LN Series AJ Series CJ Series SJ Series AB Series HJK Series FJ Series

Jewelry

LN Series AJ Series CT Series

Density Measurement

LF Series LN Series HT Series AJ Series CJ Series

Water proof

CJ Series HJK Series FJ Series

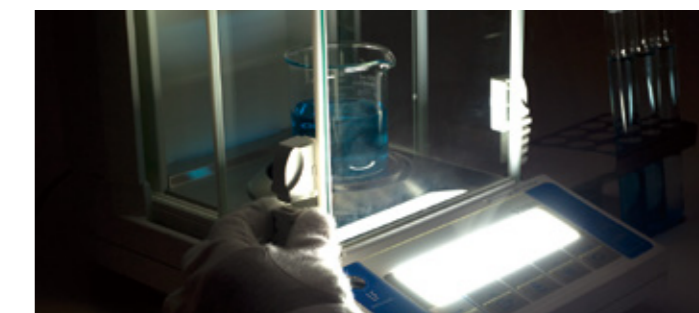
Laboratory
 Chemical
 Pharmacy
 Industry
 Moisture Analysis
 Jewelry
 Parts counting
 Density Measurement
 Hazardous area
 Water proof
 Built-in weighing unit

LF series

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.



Specifications

Semi-micro balance	LF 135RCE	LF 225DRCE		LF 135R	LF 225DR	
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	LF 124RCE	LF 224RCE	LF 124R	LF 224R
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.

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.





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.

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.



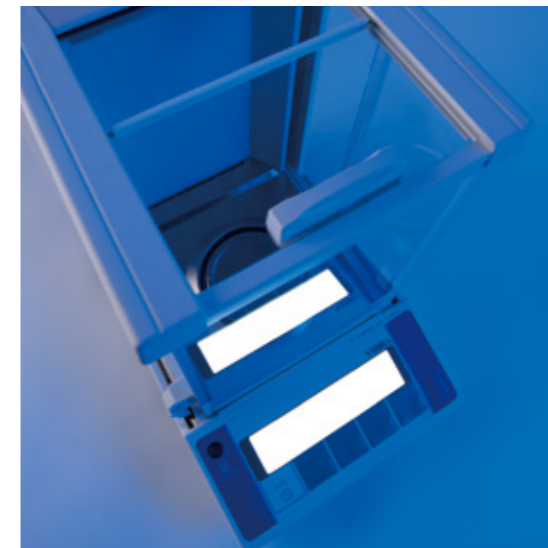
Se-CAL



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.



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.

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.



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.

LN series

High Class Precision 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.

The advantage like short stabilization time, clear fluorescent display, tough housing, stylish design... VIBRA LN series can be suitable for every occasions from laboratory, light&heavy industry, and jewelers.

Laboratory
Chemical

Laboratory
Chemical

Industry

Industry

Jewelry

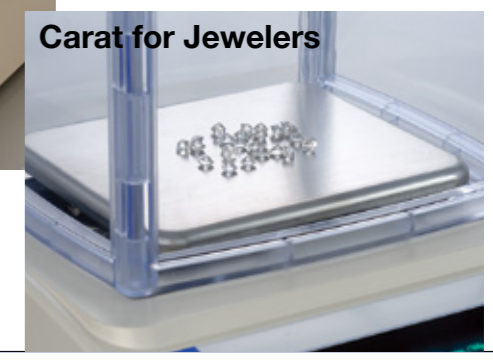
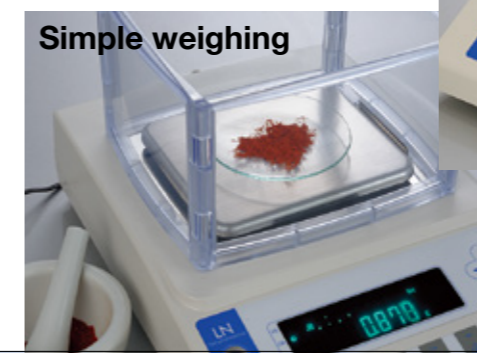
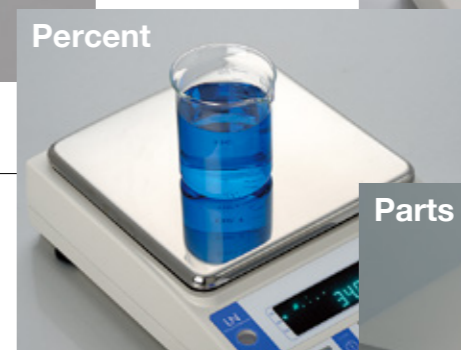
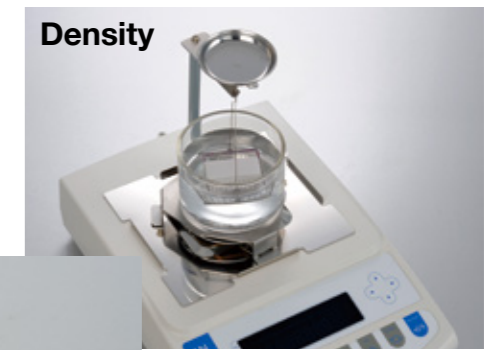
Jewelry

Parts counting

Parts counting

Density Measurement

Density Measurement



Specifications

Model name	LN 223R LN 223RCE	LN 323R LN 323RCE	LN 423R LN 423RCE	LN 623R LN 623RCE	LN 1202R LN 1202RCE	LN 2202R LN 2202RCE	LN 3202R LN 3202RCE	LN 4202R LN 4202RCE
Capacity	220g	320g	420g	620g	1200g	2200g	3200g	4200g
Readability (d)	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g
Verification intervals (e) *1	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g
Repeatability	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g
Linearity	±0.001g	±0.001g	±0.001g	±0.001g	±0.01g	±0.01g	±0.01g	±0.01g
Stabilization time	2.5 sec.	2.5 sec.	2.0 sec.	2.0 sec.	2.0 sec.	2.5 sec.	2.5 sec.	2.5 sec.
Pan size	120×140mm	120×140mm	120×140mm	120×140mm	200×200mm	200×200mm	200×200mm	200×200mm
Calibration	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External

Model name	LN 223 LN 223CE	LN 323 LN 323CE	LN 423 LN 423CE	LN 623 LN 623CE	LN 1202 LN 1202CE	LN 2202 LN 2202CE	LN 3202 LN 3202CE	LN 4202 LN 4202CE	LN 6202 LN 6202CE	LN 8201 LN 8201CE	LN 12001 LN 12001CE	LN 15001 LN 15001CE	LN 21001 LN 21001CE	LN 31001 LN 31001CE
Capacity	220g	320g	420g	620g	1200g	2200g	3200g	4200g	6200g	8200g	12000g	15000g	21000g	31000g
Readability (d)	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	0.1g
Verification intervals (e) *1	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	0.1g	1g	1g	1g	1g	1g
Repeatability	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	0.1g
Linearity	±0.001g	±0.001g	±0.001g	±0.001g	±0.01g	±0.01g	±0.01g	±0.01g	±0.01g	±0.1g	±0.1g	±0.1g	±0.1g	±0.1g
Stabilization time	2.5 sec.	2.5 sec.	2.0 sec.	2.0 sec.	2.0 sec.	2.5 sec.	2.5 sec.	2.5 sec.	3.0 sec.	2.5 sec.	2.5 sec.	2.5 sec.	2.5 sec.	2.5 sec.
Pan size	120×140mm	120×140mm	120×140mm	120×140mm	200×200mm	200×200mm	200×200mm	200×200mm	200×200mm	200×200mm	200×200mm	200×200mm	220×250mm	220×250mm
Calibration	External	External	External	External	External	External	External	External	External	External	External	External	External	External

*1 "CE" models are OIML class I and II approved. Verification interval "e" is available only in "CE" models.

Common Specification

- Measuring system : Tuning-fork frequency system
- Output : RS232C (2outputs)
- Tare : Full weighing range
- Display : Fluorescent display
- EC type approval : available for all models (class1 & 2)

*For options, please see page 41.

Statistics function for QC & etc...



VIBRA LN 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.

Short stabilization and stable indication

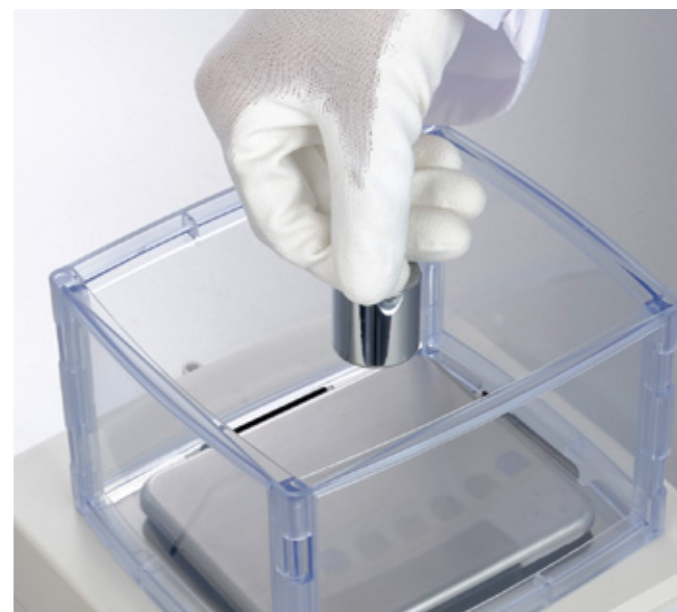
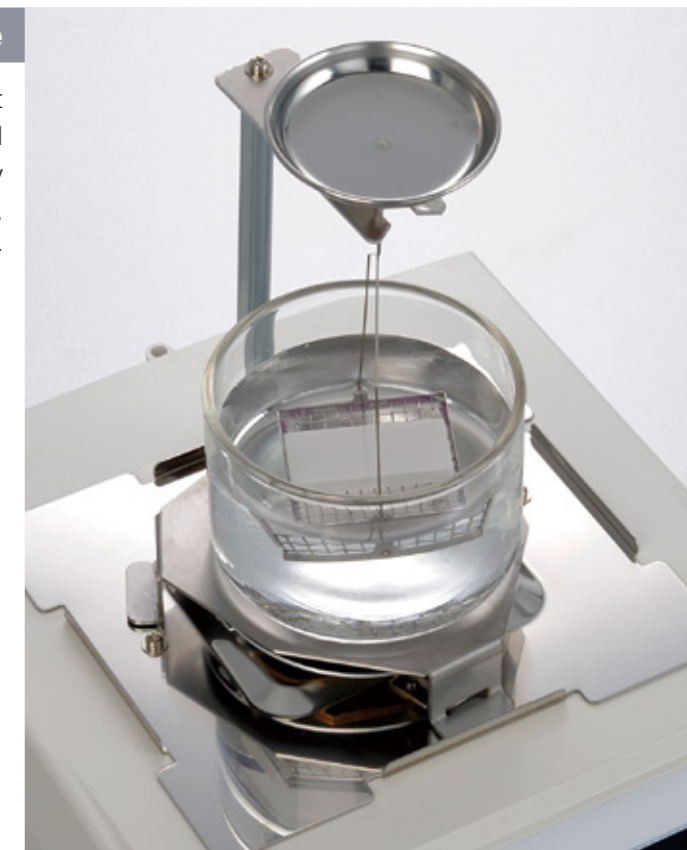
The short stabilization time and the stable indication are important for almost all the weighing operations. VIBRA LN series promises you the quickness and stableness so that it can make the measurement works much more efficient and less time-consuming.



Density measurement mode

To measure the density of the object is one of the most typical applications for the precision balance. VIBRA LN series offers you the function to easily calculate the density from the measurement results.

* the density measurement kit in the image is option.



Accurate measurement by appropriate calibration

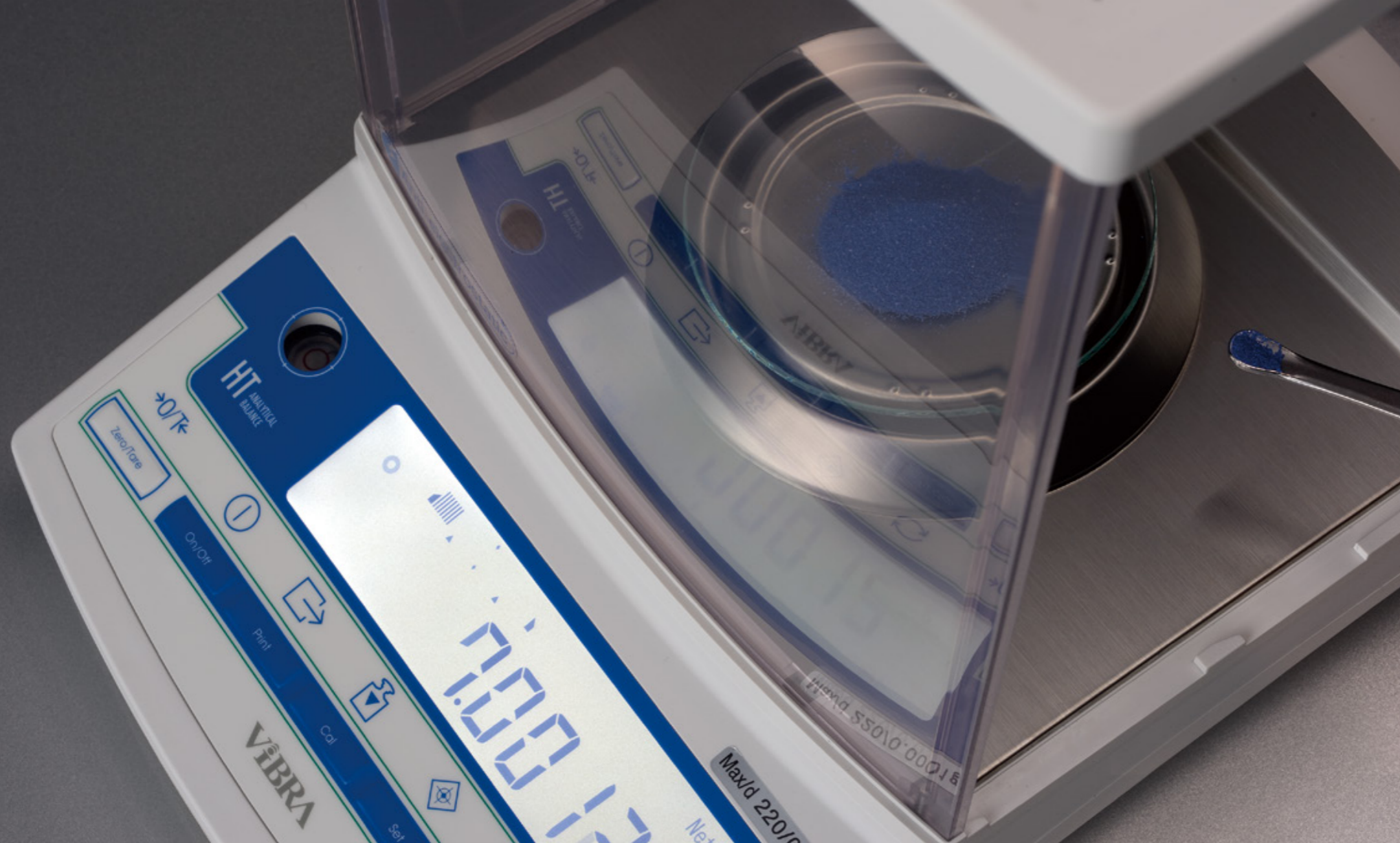
It is highly important to keep the accuracy of the balance by calibration. The procedure of the calibration is sometimes bothering, but in VIBRA LN series, you can adjust the balance with one-touch of CAL key (internal weight model only).



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.





HT series

Standard Analytical Balance

Make a difference - new concept of analytical balance

VIBRA HT series has achieved reliable analytical weighing with all of tuning-fork sensor advantages. "Plug & Perform" (no warm-up time), energy saver, stable indication, longterm reliability, etc ... all are put in this compact body. HT series provides you with comfortable and reliable weighing operation in everyday laboratory works.



Specifications

Model name	HT 84R	HT 124R	HT 224R	HT 84RCE	HT 124RCE	HT 224RCE
Capacity	80g	120g	220g	80g	120g	220g
Readability (d)	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Verification intervals (e)	-	-	-	1mg	1mg	1mg
Repeatability	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Linearity	±0.3mg	±0.3mg	±0.3mg	±0.3mg	±0.3mg	±0.3mg
Stabilization time	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.
Pan size	80mm dia	80mm dia	80mm dia	80mm dia	80mm dia	80mm dia
Calibration	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External

Model name	HT 84	HT 124	HT 224	HT 84CE	HT 124CE	HT 224CE
Capacity	80g	120g	220g	80g	120g	220g
Readability (d)	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Verification intervals (e)	-	-	-	1mg	1mg	1mg
Repeatability	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Linearity	±0.3mg	±0.3mg	±0.3mg	±0.3mg	±0.3mg	±0.3mg
Stabilization time	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.
Pan size	80mm dia	80mm dia	80mm dia	80mm dia	80mm dia	80mm dia
Calibration	External	External	External	External	External	External

"CE" models are OIML class I approved.

*For options, please see page 41.

Common Specification

Measuring system : Tuning-fork frequency system
 Output : RS232C (2 outputs)
 Tare : Full weighing range
 Display : Back-lit LCD display
 EC type approval : available for all models (class 1)





Se-CAL

VIBRA HT series has Se-CAL function as standard. In Se-CAL, the balance can perform self-calibration fully automatically according to pre-installed conditions (elapsed time or temperature change). It makes sure that the balance is always in appropriate condition for accurate weighing operation.



Easy RES function

It is sometimes necessary to choose appropriate response speed according to weighing object and outer environment. Easy RES offers very simple way to adjust the response speed. Just one-touch of SET key is enough to adjust response speed in three levels.

Density measurement in laboratory

The analysis of density is one of the most common routine works in laboratory in many kinds of industry. By using density kit option VIBRA HT series provide highly precise measurement of density, not only of solid object but also of liquid.



Automatic Repeatability Measurement

In ARM function, you can easily check the condition of the balance by calculating the standard deviation of repeatability (HTR series only).



Short stabilization time & stable indication

Short stabilization time and stable indication are quite important for efficient laboratory works. VIBRA HT series achieves these two in high level with newly developed tuning-fork sensor.



Simple structure – Easy to clean

It often happens that weighing objects like powder and liquid are spilled over in the windshield during weighing operation. The simple structure of windshield parts makes it possible to easily disassemble and reassemble for cleaning.

Connection

VIBRA HT series has RS232C output 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.



Bright LCD

With clear and bright back-lit LCD, the user can easily read the indication in the display. It reduces the reading errors.





AJ series

Standard Precision Balance

SIMPLE IS THE BEST.

This is the basic concept of VIBRA AJ series. Simple, but profound scope for wide measurement fields. Laboratory, factory, jewelry shops, etc... VIBRA AJ series is always the simplest & the best solution for your needs.

Counting



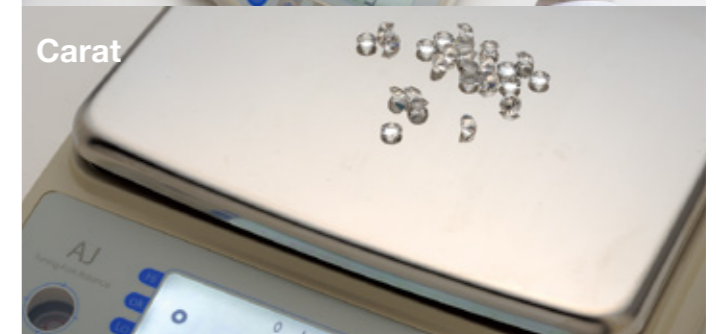
Percent



Weight



Carat



Specifications

Model	AJ□-220E AJ□-220CE	AJ□-320E AJ□-320CE	AJ□-420E AJ□-420CE	AJ□-620E AJ□-620CE	AJH-2200E AJH-2200CE	AJH-3200E AJH-3200CE	AJH-4200E AJH-4200CE
Capacity	220g	320g	420g	620g	2200g	3200g	4200g
Readability (d)	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g
Verification intervals (e) *1	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g
Repeatability	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g
Linearity	±0.001g	±0.001g	±0.001g	±0.002g	±0.01g	±0.01g	±0.01g
Stabilization time	2.5 sec.	2.5 sec.	2.0 sec.	2.0 sec.	2.5 sec.	2.5 sec.	2.5 sec.
Pan size	118mm dia	118mm dia	118mm dia	118mm dia	180×160mm	180×160mm	180×160mm
Calibration	□ Internal □ External	□ Internal □ External	□ Internal □ External	□ Internal □ External	Internal & External	Internal & External	Internal & External

Model	AJ-220E AJ-220CE	AJ-320E AJ-320CE	AJ-420E AJ-420CE	AJ-620E AJ-620CE	AJ-820E AJ-820CE	AJ-1200E AJ-1200CE	AJ-2200E AJ-2200CE	AJ-3200E AJ-3200CE	AJ-4200E AJ-4200CE	AJ-6200E AJ-6200CE	AJ-8200E AJ-8200CE	AJ-12KE AJ-12KCE
Capacity	220g	320g	420g	620g	820g	1200g	2200g	3200g	4200g	6200g	8200g	12000g
Readability (d)	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g
Verification intervals (e) *1	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	0.1g	1g	1g
Repeatability	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g
Linearity	±0.001g	±0.001g	±0.001g	±0.002g	±0.01g	±0.01g	±0.01g	±0.01g	±0.01g	±0.02g	±0.1g	±0.1g
Stabilization time	2.5 sec.	2.5 sec.	2.0 sec.	2.0 sec.	2.0 sec.	2.0 sec.	2.5 sec.	2.5 sec.	2.5 sec.	3.0 sec.	2.5 sec.	2.5 sec.
Pan size	118mm dia	118mm dia	118mm dia	118mm dia	170×142mm	170×142mm	180×160mm	180×160mm	180×160mm	180×160mm	180×160mm	180×160mm
Calibration	External	External	External	External	External	External	External	External	External	External	External	External

*1 "CE" models are OIML class I and II approved. Verification interval "e" is available only in "CE" models.

Common Specification

Measuring system : Tuning-fork frequency system
 Output : RS232C
 Tare : Full weighing range
 Display : Back-lit LCD display
 EC type approval : available for all models (class 1 & 2)

*For options, please see page 41.





Bright, White Back-light

Large LCD (16.5mm height) with bright & white back-light makes the weighing operation easy and comfortable even in the dark location.

Short Stabilization & Stable Indication

Short stabilization time and stable indication are important feature in the precise weight measurement. The innovative tuning-fork sensor in VIBRA AJ series meets this demand and satisfies you.



Keep the Weighing Accuracy

The model with name AJ"H" has semi-automatic built-in calibration weight. You can easily calibrate the balance with built-in weight. It ensures the accurate and precise weighing operation.



Draft Windshield as Standard

The draft windshield is available as standard for 220g-620g capacity models. It realizes the ideal environment for precise weighing. It can be easily assembled by hands.

Compact Housing, High Portability

The compact housing is one of the advantages of VIBRA AJ series. The space-saving design enables you to instal it even in small space. Furthermore you can bring it everywhere you want with optional rechargeable battery.



Connection with Outside Devices

RS232C interface is installed as standard feature in every models of VIBRA AJ series. You can connect the balance to outside devices like PC.



Density Measurement Kit Option

The density measurement kit can be available as option.
*No program to automatically calculate the density is installed in VIBRA AJ series. Just the kit as option.





AB series

Specifications

Model	AB 323	AB 623	AB 1202	AB 3202	AB 12001
Capacity	320g	620g	1200g	3200g	12000g
Readability (d)	0.001g	0.001g	0.01g	0.01g	0.1g
Repeatability	0.001g	0.001g	0.01g	0.01g	0.1g
Linearity	±0.003g	±0.004g	±0.02g	±0.03g	±0.2g
Stabilization time	3.0 sec.	3.5 sec.	3.0 sec.	3.5 sec.	3.0 sec.
Pan size	140mm dia	140mm dia	190×190mm	190×190mm	190×190mm
Calibration	External	External	External	External	External

*1 including windshield

*For options, please see page 41.

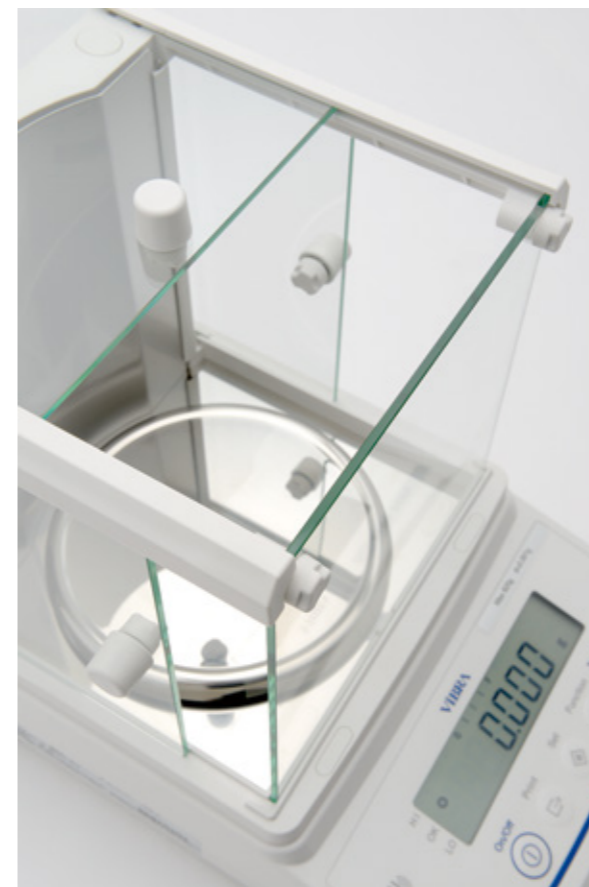
Standard Precision Balance

High precision in Affordable budget

VIBRA AB series provides basic applications which are indispensable in daily work in laboratory and industrial lines. In any applications highly precise measurement is promised. VIBRA AB series is the best affordable entrance into high-grade weighing solution.

Common Specification

Measuring system : Tuning-fork frequency sensing
 Tare : Full weighing range
 Display : LCD with backlit



User-friendly : Key to efficient daily works



VIBRA AB series is equipped with features to make routine measurement works easy and comfortable. Large back-lit LCD is easy to read in any locations. Glass windshield prevents air turbulence from disturbing weighing operation in tough environment.

Connection to outside devices

VIBRA AB series has RS232C output as standard. When you need to print the weighing data and/or store it in outside devices, you can easily connect VIBRA AB series to PC, printer, etc... through RS232C output.





Adaptability.

ViBRA MD series can be available for moisture analysis of various objects and various locations. Unique organic carbon heater has strong power and is environmentally correct heat source.

Simplicity.

ViBRA MD series has automatic measurement mode in which MD monitors the drying process and automatically stops the operation. And the structure is quite simple that daily cleaning and maintenance are easy.

Reliability.

No other factor is more important than reliability in measurement performance. Combination of auto-taring system and newly developed organic carbon heater realize excellent repeatability in measurement results.

MD series

Moisture Determination Balance

Adaptability, Simplicity, Reliability

Grain, Processed Food, Medicine, Wood, Paper, Concrete, Jute, Copra, coke, Nonwoven fabric, Plastic pellets, ...etc. In many products, moisture content is one of the key factors in quality control process. ViBRA MD series provides simple but reliable measurement of moisture content in laboratory and manufacturing process.



Specifications

Model name	MD 83
Measurement format	Evaporation weight loss method
Readability moisture content	0.01% / 0.1% *1
Repeatability with 5g sample	0.1% *2
Measurement range	0~100% (wet base, solids), 0~500% (dry base)
Maximum sample weight	80g
Minimum sample weight	1g
Readability of balance	0.005g
Measurement mode	Automatic operation mode, Timed operation mode
Temperature range	30 - 180 °C
increment in temperature	1 °C
Display	LCD with backlit (96x40 mm)
Output	RS232C
Storage of measurement conditions	5
Heat source	Organic carbon heater (280Wx2)
Power supply	AC100~120V/220~240V
Power consumption	Max. 900W
Sample pan	Stainless steel (110mm dia., 11mm depth)
Items included	Sample panx2, sample pan handler, windshield, sample pan tray, spoon, spare fuse, sample aluminum sheetx10, power cord, 3P-2P plug, operation manual

*1 0.01% unit is displayable only.

*2 standard deviation

*For options, please see page 41.





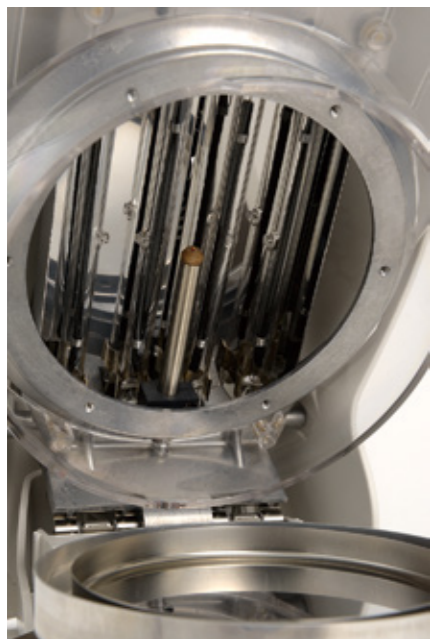
Simple structure - easy to clean



The simple structure of MD series allows the users to clean and do maintenance work easily when the liquid/powder samples are spilled over. It ensures long product life time.

Newly adopted, organic-carbon heater

Organic carbon heater gives strong radiation in a narrow range of specific wavelength. In this range water molecules are efficiently actuated whereas the influence on others are minimal. Water content is fastly dried and other contents in the sample are well preserved. Fast drying and minimized risk of burning samples. VIBRA MD series meet two important requirements in moisture content analysis simultaneously.

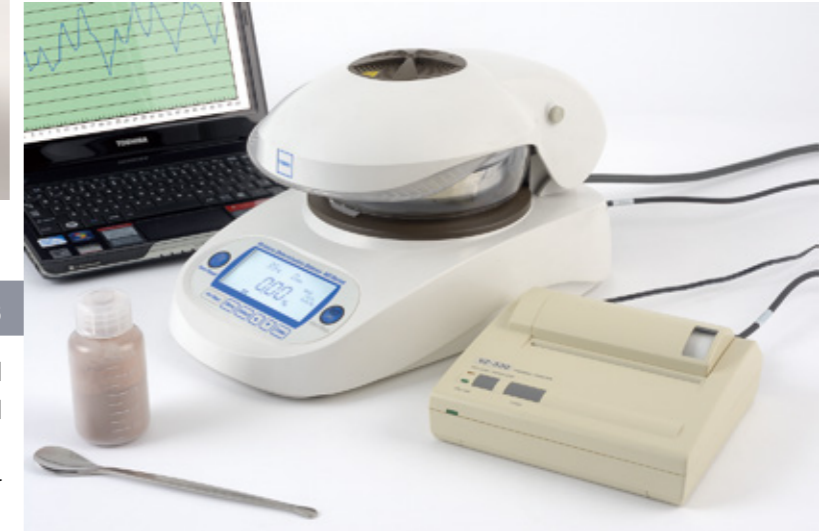


Fast drying, high repeatability

Organic carbon heater in ViBRA MD series achieve fast drying with minimized risk of sample burning. The operation time in routine moisture content analysis can be reduced and the high repeatability of operation result is also assured.

Connection to outside devices

ViBRA MD series has RS232C output as standard feature. The measurement results can be printed by optional printer VZ-300 through RS output. It can be stored in PC with optional data-logger software FDL-02, too.



Clear, bright and large LCD display

LCD display is clear, bright and large. It reduces the reading error during measurement operations even in tough working environment.



Alert signal

Red alert signal is blinking during heating process. You can immediately notice when the measurement is completed.





Chemical

Industry

CJ series

High Class Precision Balance

Heavy duty, Reliable measurement, Water proof IP65

As heavy-duty high-precision balance with water & dust proof feature, CJ series promises the excellent performance in any environment, dust atmosphere, mist, oil splashes, dark condition... etc. The stainless-steel upper case is resistant to chemical products, and easy to clean.

CJ series provides multi-function & multi-mode measurement and covers the wide weighing range from 220g to 15kg with minimum readability 0.01g. This is the best solution to your every needs.

Specifications

Model	CJ-220E CJ-220CE	CJ-320E CJ-320CE	CJ-620E CJ-620CE	CJ-820E CJ-820CE	CJ-2200E CJ-2200CE	CJ-3200E CJ-3200CE	CJ-6200E CJ-6200CE	CJ-8200E CJ-8200CE	CJ-15KE CJ-15KCE
Capacity	220g	320g	620g	820g	2200g	3200g	6200g	8200g	15000g
Readability (d)	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1g
Verification intervals (e)*1	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1g
Repeatability	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1g
Linearity	±0.01g	±0.01g	±0.01g	±0.01g	±0.1g	±0.1g	±0.1g	±0.1g	±1g
Pan size	140mm dia.	140mm dia.	140mm dia.	140mm dia.	190×190mm	190×190mm	190×190mm	190×190mm	190×190mm
Calibration	External	External	External	External	External	External	External	External	External

*1 "CE" models are OIML class II approved. Verification interval "e" is available only in "CE" models.

*For options, please see page 41.

Stainless steel highly resistant to tough conditions

Mirror finished stainless steel housing easy to clean, durable to tough conditions.



Minimize stabilization time and keep the indication stable

Unique tuning-fork sensing system achieves short stabilization time and stable indication necessary for reliable measurement. The short stabilization ensures the comfortable and efficient operation.



Density Measurement

The density can be measured in "density measurement mode" with under-weighing hook (hook is option).



Various measurement modes & functions for industrial weighing

Parts counting, percentage, comparator, density measurement... CJ is the answer to various requirements in the industrial weighing. You can easily set the appropriate mode with arrow key.

Low energy-consuming, high portability

Low energy-consuming design allows CJ series to operate for 200 hours with dry-cell battery (when back-lit is OFF). It is very much suitable for mobile use (32-hour operation with dry-cell battery in case of back-lit ON).



Chemical

Industry

Density Measurement

Water proof

SJ series

Pharmacy
Industry
Jewelry



CT series



Jewelry

Basic Precision Balance

Indispensable functions with reasonable budget

Highly usable basic applications

SJ series offers basic applications in user-friendly operations to make weighing work easier : percentage weighing, counting, comparator, etc...

Short stabilization & stable indication

SJ series offers short stabilization time and stable indication. It promises stress-free weighing routine works.

Portability

SJ series can be operated with rechargeable battery option. And all features are well combined in quite compact body. It realizes high-portability of precision balance.



Specifications

Model name	SJ-220E SJ-220CE	SJ-420E SJ-420CE	SJ-620E SJ-620CE	SJ-1200E SJ-1200CE	SJ-2200E SJ-2200CE	SJ-4200E SJ-4200CE	SJ-6200E SJ-6200CE	SJ-12KE SJ-12KCE
Capacity	220g	420g	620g	1200g	2200g	4200g	6200g	12000g
Readability (d)	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1g
Verification intervals (e)*1	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1g	1g
Repeatability	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1g
Linearity	±0.01g	±0.01g	±0.01g	±0.1g	±0.1g	±0.1g	±0.1g	±1g
Stabilization time	2.5 sec.	2.0 sec.	2.0 sec.	2.0 sec.	2.5 sec.	2.5 sec.	3.0 sec.	2.5 sec.
Pan size	140mm dia.	140mm dia.	140mm dia.	170×142mm	180×160mm	180×160mm	180×160mm	180×160mm
Calibration	External	External	External	External	External	External	External	External

*1 "CE" models are OIML class II approved. Verification interval "e" is available only in "CE" models.

*For options, please see page 41.

Roll-top type



Three-sliding type



Carat Balance

Light and compact balance for jewelers

Compact housing

CT series is equipped with unique "Roll-top" windshield. It enables user to access the balance from front and reduces the volume of balance housing. Standard three-sliding windshield model is also available.

Readability from 0.001ct to 0.01ct

0.001ct readability with capacity 600ct is very much fitted to weighing of diamond. It is typically used in diamond jewelry shops and diamond manufacturers.

Specifications

"Roll-top" windshield type

Model name	CT 603 CT 603CE	CT 1602 CT 1602CE
Capacity	600ct	1600ct
Readability (d)	0.001ct	0.01ct
Verification intervals (e)*1	0.01ct	0.1ct
Repeatability	0.001ct	0.01ct
Linearity	±0.003ct	±0.01ct
Stabilization time	4.0 sec.	4.0 sec.
Pan size	80mm dia.	80mm dia.
Calibration	External	External

Three-sliding windshield type

Model name	CT 603G CT 603GCE	CT 1602G CT 1602GCE
Capacity	600ct	1600ct
Readability (d)	0.001ct	0.01ct
Verification intervals (e)*1	0.01ct	0.1ct
Repeatability	0.001ct	0.01ct
Linearity	±0.003ct	±0.01ct
Stabilization time	4.0 sec.	4.0 sec.
Pan size	80mm dia.	80mm dia.
Calibration	External	External

*1 "CE" models are OIML class I & II approved. Verification interval "e" is available only in "CE" models.

*For options, please see page 41.

GZII series

GZH series



GZ series

Precision Ex-proof scale ATEX approved scale for precision weighing in dangerous areas

In industrial scene the accurate weighing operation is often necessary even in explosive atmosphere. GZ series can perform reliable weighing operation in explosive atmosphere zone 1 and zone 2. All models can be supplied as "dry-cell battery operation type" for which no complicated installation works are necessary.

Specifications

Model	610g	1500g	3100g	6100g	30000g	2000g	6000g	12000g	30000g	60000g
Capacity	610g	1500g	3100g	6100g	30000g	2000g	6000g	12000g	30000g	60000g
Readability (d)	0.01g	0.01g	0.01g	0.1g	0.1g	0.01g	0.1g	0.1g	1g	1g
Repeatability	0.01g	0.01g	0.01g	0.1g	0.2g	0.01g	0.1g	0.2g	1g	1g
Pan size	140mm dia.	250×202mm	250×202mm	250×202mm	270×250mm	170mm dia.	250×202mm	250×202mm	360×326mm	360×326mm
Calibration	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External	External	External	External	External	External

Model	610g	1500g	3100g	6100g	30000g	2000g	6000g	12000g	30000g	60000g
Capacity	610g	1500g	3100g	6100g	30000g	2000g	6000g	12000g	30000g	60000g
Readability (d)	0.01g	0.01g	0.01g	0.1g	1g	0.01g	0.1g	0.1g	5g	1g
Calibration intervals (e)	0.1g	0.1g	0.1g	1g	1g	0.1g	1g	1g	5g	10g
Repeatability	0.01g	0.01g	0.01g	0.1g	0.2g	0.01g	0.1g	0.2g	5g	1g
Pan size	140mm dia.	250×202mm	250×202mm	250×202mm	270×250mm	170mm dia.	250×202mm	250×202mm	360×326mm	360×326mm
Calibration	Internal & External	Internal & External	Internal & External	Internal & External	Internal & External	External	External	External	External	External

*1 "CE" models are OIML class II approved.

* All models can be ordered as dry-cell battery type. The model name of dry-cell type contains alphabet "B" like "GZ△-B×××Ex".

*For options, please see page 41.



Selectable from two types in power supply, power supply box type or dry-cell battery type

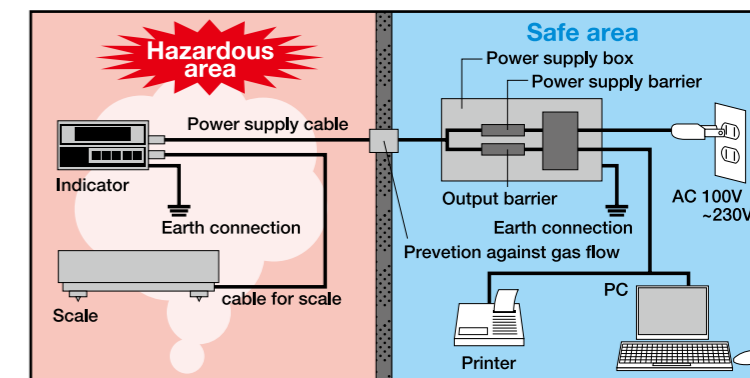
Power supply box type

no earth connection work is necessary

Dry-cell battery type, very easy to install

no wiring work is necessary, 150 hours continuous operation

Configuration



* The standard length of power supply cable is 5m. It can be extended as option (see page 41).

Always keep the scale in good condition

semi-automatic calibration with built-in weight (available only with GZH(-B) series). GZII(-B) series can be calibrated with external reference weight.

Stainless steel housing, tough body ideally fitted to industrial scene

mirror finish weighing pan available as standard in GZII(-B)2000(C)Ex, 6000(C)Ex, 12K(C)Ex, all models in GZH(-B) series



II 2 G Ex ia IIB T4
 Temperature range class for use in hazardous areas
 Gas classification
 Type of protection (intrinsically safe)
 Explosion-protected
 For gases
 Category 2
 Equipment group

in accordance with

IEC 60079-0:2004 Ed. 4 EN 60079-0 : 2006
 IEC 60079-11:2006 Ed. 5 EN 60079-11 : 2007

Operation area

	II A	II B	II C
T1	acetone, benzene, ammonia, methanol, ethane, toluene, propane, methane, acetic acid	coke-oven gas, acrylonitrile, hydrocyanic acid, cyclopropane	hydrogen
T2	ethanol, butanol, butane, methyl methacrylate	ethylene, ethylene oxide, ethyl acrylate	acetylene
T3	gasoline, hexane, pentane	acrylaldehyde, dimethyl ether	
T4	acetaldehyde, trimethylamine	ethyl methyl ether, diethyl ether	
T5			carbon disulfide
T6			ethyl nitrite

HJK series

Precision Industrial Scale

Water & dust proof, durable, high resolution

HJK series has IP rating 65 water and dust proof feature as standard. This series can be used in two styles, separate type with 1m cable or pole type. Separate type can be changeable to pole type with pole kit option. And cable length can be extended to 5m or 10m as option (the standard is 1m).

Specifications

Separate type										
Model	HJR-17KSE HJR-17KSCE	HJR-22KSE HJR-22KSCE	HJR-33KSE HJR-33KSCE	HJR-62KDSE HJR-62KDSCE	HJ-17KSE HJ-17KSCE	HJ-22KSE HJ-22KSCE	HJ-33KSE HJ-33KSCE	HJ-62KDSE HJ-62KDSCE		
Capacity	17000g	22000g	33000g	6200g 62000g	17000g	22000g	33000g	6200g 62000g		
Readability (d)	0.1g	0.1g	0.1g	0.1g 1g	0.1g	0.1g	0.1g	0.1g 1g		
Verification intervals (e)*1	1g	1g	1g	1g 1g	1g	1g	1g	1g 1g		
Repeatability	0.1g	0.1g	0.1g	0.1g 0.7g	0.1g	0.1g	0.1g	0.1g 0.7g		
Linearity	±0.3g	±0.3g	±0.3g	±0.3g ±1.0g	±0.3g	±0.3g	±0.3g	±0.3g ±1.0g		
Pan size	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm		
Calibration	Internal & External	Internal & External	Internal & External	Internal & External	External	External	External	External		

Pole type										
Model	HJR-17KE HJR-17KCE	HJR-22KE HJR-22KCE	HJR-33KE HJR-33KCE	HJR-62KDE HJR-62KDE	HJ-17KE HJ-17KCE	HJ-22KE HJ-22KCE	HJ-33KE HJ-33KCE	HJ-62KDE HJ-62KDE		
Capacity	17000g	22000g	33000g	6200g 62000g	17000g	22000g	33000g	6200g 62000g		
Readability (d)	0.1g	0.1g	0.1g	0.1g 1g	0.1g	0.1g	0.1g	0.1g 1g		
Verification intervals (e)*1	1g	1g	1g	1g 1g	1g	1g	1g	1g 1g		
Repeatability	0.1g	0.1g	0.1g	0.1g 0.7g	0.1g	0.1g	0.1g	0.1g 0.7g		
Linearity	±0.3g	±0.3g	±0.3g	±0.3g ±1.0g	±0.3g	±0.3g	±0.3g	±0.3g ±1.0g		
Pan size	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm	400x350mm		
Calibration	Internal & External	Internal & External	Internal & External	Internal & External	External	External	External	External		

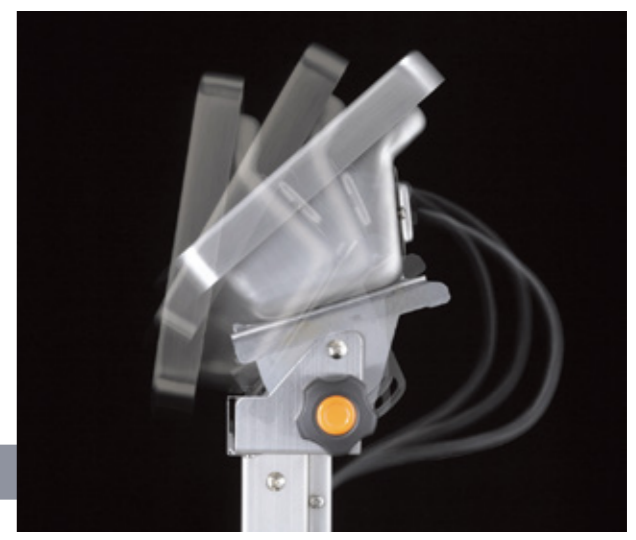
*1 "CE" models are OIML class II approved. Verification interval "e" is available only in "CE" models.

And cable length can be extended to 5m or 10m as option (the standard is 1m).



Large fluorescent display

With clear and large fluorescent display the use can easily read the indication even in dark location.



Display angle adjustable

In pole style the angle of display part can be easily adjustable.



Connection to outside devices

RS232C output is equipped as standard. It can be easily connected to outside devices. *IP rating becomes ineffective when it is connected to outside devices.



Durable body with IP rating 65

HJK series has durable body made from stainless steel. Together with IP rating 65, it makes HJK series very much fitted to precise weighing work in hard environment.

FJ series

Chemical

Industry



Precision Platform Scale

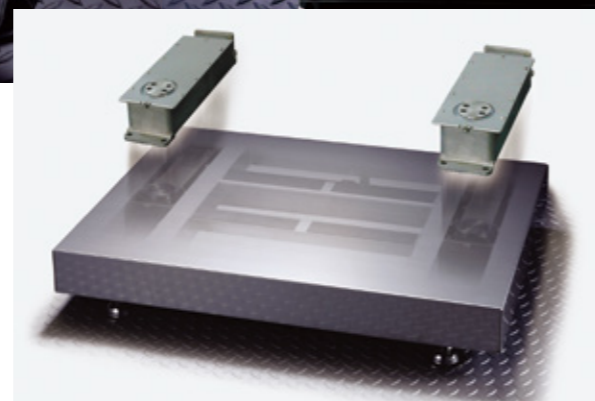
High precision, high capacity & wide weighing platform

FJ series offer you high precision 1g readability all through weighing range up to 300kgs. Furthermore the housing is made from stainless steel SUS304 which is highly resistant to chemical corrosion and rust (IP rating 65).

Specifications

Model	FJ 150K1G	FJ 300K1G
Capacity	150kg	300kg
Readability (d)	1g	1g
Repeatability	0.7g	0.8g
Linearity	±3g	±5g
Pan size	800×600mm	800×600mm
Calibration	External	External

*For options, please see page 41.



For rugged circumstances

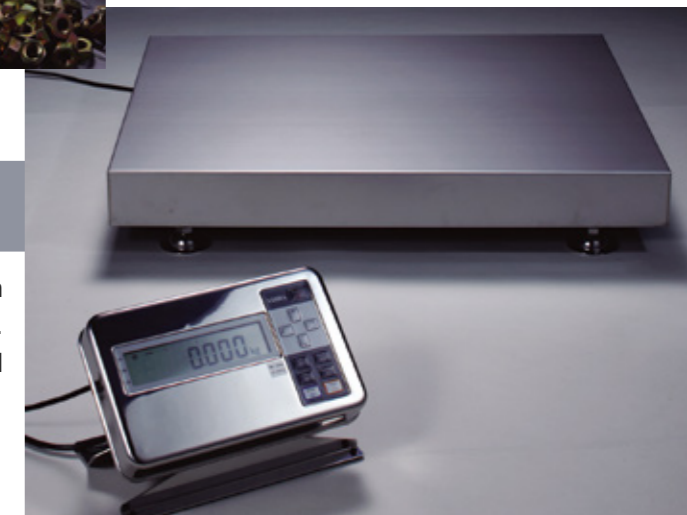
High Capacity (and) High Resolution Weighing Platform and Indicator
IP65 dust and water protection

Chemical

Industry

A whole (complete) set solution

This is a complete set of balance with platform and indicator. All covered with stainless steel



Flexible configuration

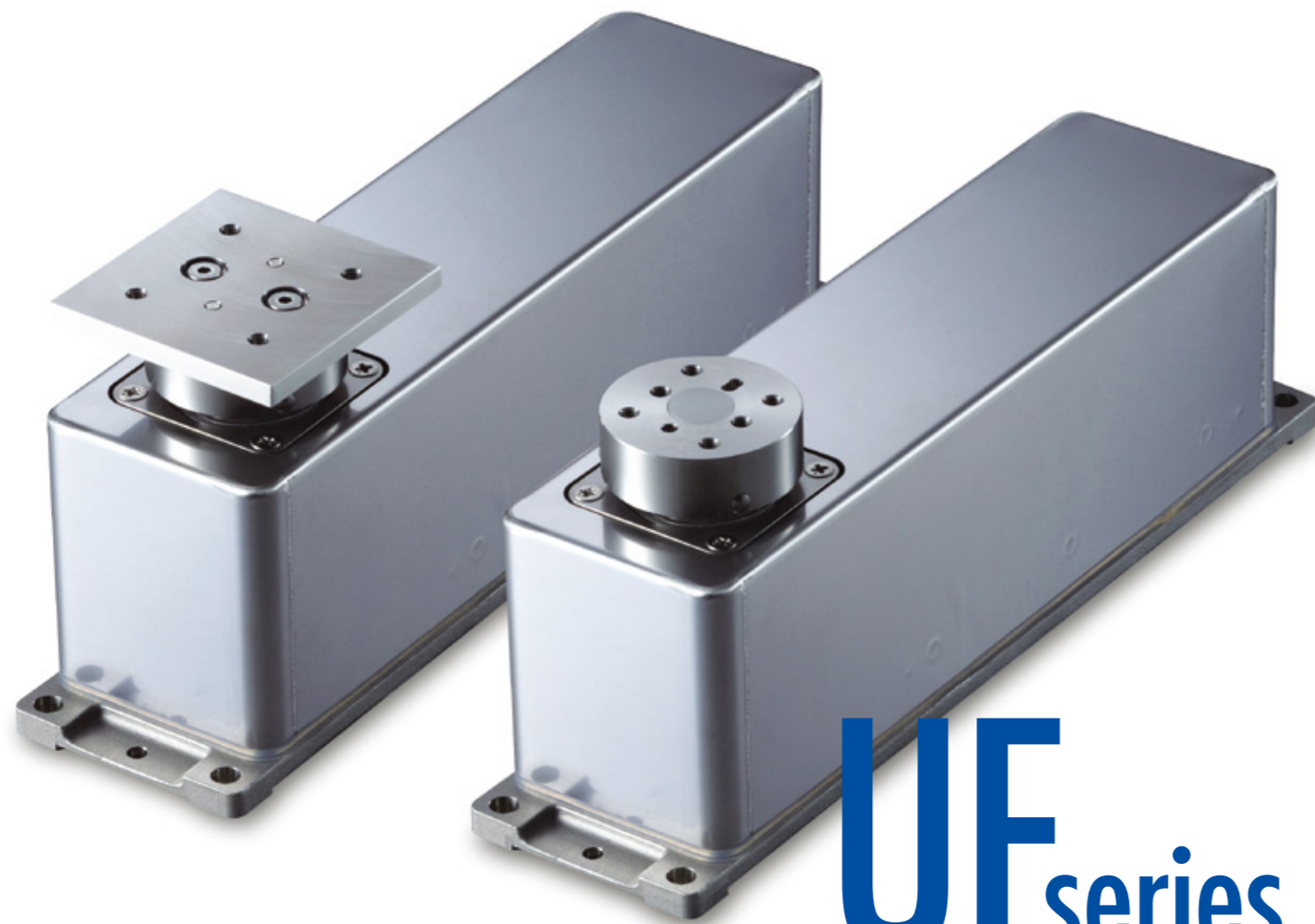
Indicator could be installed on the optional pole stand or desk stand, adapting to the every occasion.
RS-232 Interface is provided from the Indicator.

Useable Indicator

Clearly visible Back lit LCD display
Direct function setting with Direction Keys
Easy RES function can change response speed in three levels just with out- touch of SET key.



Water proof



UF series

Built-in weighing unit

Suitable for applications in production lines where weighing is required

Space-saving design for the installation where space is limited

The width of the weighing unit is 56mm. This enables you to achieve greater productivity by disposing the weighing units in the limited space efficiently.

High precision & High speed

1mg readability & 1/620000 resolution with 0.4 seconds of stabilization time (load 5% of capacity). Also the data update interval is 100 times per second at maximum.

Direct digital output from the weighing unit

Easy connection to PLC or PC without indicator by RS232C or RS485 directly. This is suitable for efficient disposition of the weighing units and the wiring.

Specifications

Model name	UF-620	UF-3200
Capacity	620g	3200g
Readability (d) *1	0.001g *1	0.01g *5
Repeatability	0.001g	0.01g
Linearity	±0.002g	±0.02g
Stabilization time *2	0.4 sec. *2	0.4 sec. *2
Data updating interval (max.)	106 times/sec. *3	106 times/sec. *3
Interface	Half duplex RS485, Full duplex RS232C 1200 to 38.4kbps	Half duplex RS485, Full duplex RS232C 1200 to 38.4kbps
Power supply	DC +24V±10%, 0.1A	DC +24V±10%, 0.1A
Water proof IP rating	65 *4	65 *4
Dimension (WLH)	56x230x85mm	56x230x95mm

*1 switchable among 0.001g/0.002g/0.005g/0.01g/0.02g

*2 in case of load of 5% of full capacity with smallest read-out

*3 when connecting with Display unit, max.50t times/sec.

*4 with optional water proof connector cable

*5 switchable among 0.01g/0.02g/0.05g/0.1g/0.2g

* Weighing pan and display unit are option. Please see the option list in page 41.



DFB series

Built-in weighing unit

Suitable to install in production systems where weighing is required

Various models are available

Weighing units with capacities from 60g to 6kg are available. This line-up makes it possible to meet a variety of customer needs of making weighing systems.

Space-saving design of the weighing units

The weighing unit is designed to be arranged at a minimum pitch of 50mm (DFB-60), ideal for multiple-weighing unit configuration. The indicator, small enough to fit the palm of your hand, can be mounted separately from the weighing unit.

Ease of connection to PLC

DFB series is equipped with RS-232C or BCD parallel output (optional).

This makes it easier to connect DFB series to a controller in a system into which DFB series is to be built.

Specifications

Model	DFB-60	DFB-300	DFB-600	DFB-3000	DFB-6000
Capacity	60g	300g	600g	3000g	6000g
Readability (d)	0.001g	0.001g	0.01g	0.01g	0.1g
Repeatability	0.001g	0.002g	0.01g	0.02g	0.1g
Linearity	±0.001g	±0.003g	±0.01g	±0.03g	±0.1g
Pan size	40x40mm	55x55mm	55x55mm	74x74mm	74x74mm

Indicator and General Specifications

Display	7-segment, 6-digit fluorescent display tube
Data updating interval	Approx. 0.1 to 1.6 seconds. (Fix/Auto-change) selectable
Communication function	Bi-directional RS232C (featured as standard), BCD output (option)
Power supply	24 VDC (±10%), 0.3A

*For options, please see page 41.





CBM-910 II Standard Printer

Simply print the output data from balance.

Specifications

Model name	CBM-910 II
Character construction	(5+1)×8 dot matrix
Character sizes	1.62mm(W) × 2.4mm(H)
Dimensions	80×106×88mm (LWH)
Paper size	57.5mm(W) × 60 or 80mm diameter roll paper
Power consumption	7VA



LAS-05D-SD "No wind" Ionizing blower

Neutralizing electro-static to prevent instable indication

Specifications

Model name	LAS-05D-SD
Ionizing method	DC corona discharge (±bipolar)
Effective ionizing area	distance : 50 to 700mm
Ionizing performance	8 seconds
Life time	50,000 hours
Dimension (WLH)	110x84x57mm (117mm height when stand leg attached)

*manufactured by TRINC Co.,Ltd.



SDI Satellite Second Display

SDI works as second display in various scene like face-to-face sales in jewelry shops, hang-on display in manufacturing line...

Specifications

Model name	SDI	SDR
Display	LCD 12.5mm height	
Outer dimension	150×89×60mm (LWH)	
Power source	supply from balance	supply from AC adaptor
Cable length	1m	3m *1

*1 5m and 10m cable can be available as factory option.



CSP-160 II Statistics Printer

Easy operation of useful statistics calculation as well as simple printing.

Specifications

Model	CSP-160 II
Character construction	5×7 dot matrices
Printing digits	16 digits maximum
Character sizes	1.8mm(W)×2.5mm(H)
Dimensions	155×145×48(LWH)
Paper size	45mm(W)×30m diameter roll paper

RTS Data-collecting Software

Ties the electronic balance to PC. With RTS software, you can take in RS-232C output data from SHINKO DENSHI electronic balance by the standard application software for PC. Free download from website.

Specifications

Operating system	Windows 98 Windows 98SE Windows NT4.0 (SP3 or more) Windows Me Windows 2000 Professional Windows XP Professional Edition Windows XP Home Edition
Recommended model	installed i486DX4 66MHz CPU or more.
Memory	16MB and more
Display of the resolution	640×480 or more
Free space to install	more than 20MB



Options

LF series pp.6-9

LFDK	Density measurement kit
------	-------------------------

LN series pp.10-13

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

HT series pp.14-17

HTDK	Density measurement kit
HTBT *	Dry-cell battery pack

*not available for CE model

AJ series pp.18-21

AJBT(S)	Rechargeable battery (200g-1200g)
AJBT(M)	Rechargeable battery (2200g-12kg)
AJUH(S)	Under weighing hook (220g-1200g)
AJUH(M)	Under weighing hook (2200g-12kg)
AJDK	Density measurement kit

MD series pp.24-27

VZ-330	Printer
DA-1	Disposable aluminium sheet (500pcs)
FW-100	Deodorizing windshield
TQ-100	Sample crusher
FDL-02	Data logger software

CJ series pp.28-29

CJ-R4	RS422A output
CJ-BZ	Buzzer output
CJ-LM	Relay contact
CJ-LS	Full pack (BZ, RS, LM)
CJ-BT	Dry -cell battery pack
CJ-WR	Water-proof cable for RS232C output
AJUH(S)	Under-weighing hook
CJ-AP(S)	Bucket for animal weighing (620g, 820g)
CJ-AP(M)	Bucket for animal weighing (2200-6200g)
CJ-AP(L)	Bucket for animal weighing (8200g-15kg)

SJ series p.30

SJBT(S)	Rechargeable battery (200g-1200g)
AJBT(M)	Rechargeable battery (2200g-12kg)
SJR(S)	RS232C output (220g-1200g)
SJR(M)	RS232C output (2200g-12kg)
SJLM(S)	Relay contact (220g-1200g)
SJLM(M)	Relay contact (2200g-12kg)
AJUH(S)	Under weighing hook (220g-1200g)
AJUH(M)	Under weighing hook (2200g-12kg)

CT series p.31

AJBT(S)	Rechargeable battery
CTCP	Carat pan

GZ series pp.32-33

GZR1 *1	Printer output (Din 5p)
GZR2 *1	RS232C output (D-sub 25p)
GZR4 *1	RS422A output (D-sub 25p)
GZLM *1	Relay contact output
GZPC *2	Extension of power supply cable
GZDS	Display stand

*1 available only for power supply box type
*2 Max 100, per 5m.

HJK series pp.34-35

HKBT	Rechargeable battery
HKBZ	Buzzer output
HJKLM	Relay contact
HJKPK	Pole kit
HJKR4	RS422A output
HJKUH	Under weighing hook
HJKPC	Extended pick-up cable (5m or 10m)

FJ series pp.36-37

FJLM	Relay contact
FJPS	Pole stand
FJDS	Display stand
FJPC	Extended pick-up cable (5m or 10m)

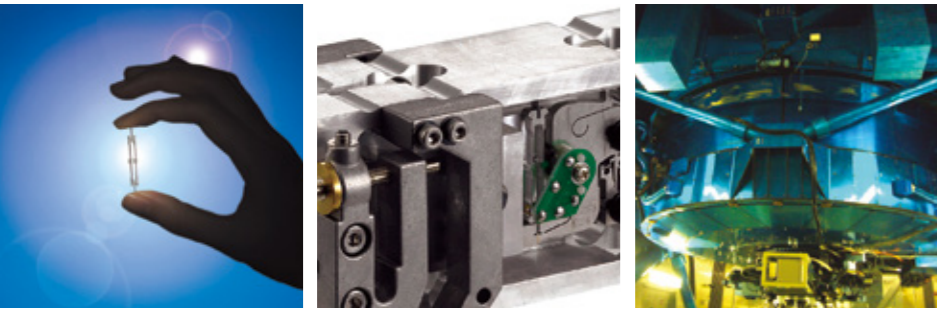
UF series p.38

UD-1	Display unit
UF BCD	BCD Option
UF WPAN	Weighing pan
UF AD	AC adaptor
UF CB	Connector cable (10m)
UF WPCB	Water proof connector cable (10m)

DFB series p.39

DFBBCD	BCD output
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Technology

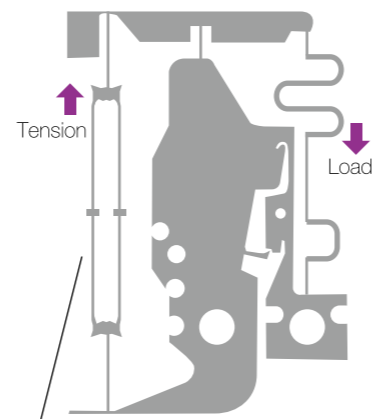


Our core technology : tuning-fork sensor

In the 1980s, by aiming to develop an original weighing sensor SHINKO DENSHI has developed the world's first tuning-fork sensor. The invention of tuning-fork sensors has improved the performance and stability of precision balances and tuning-fork sensor technology has been staple of SHINKO DENSHI ever since.

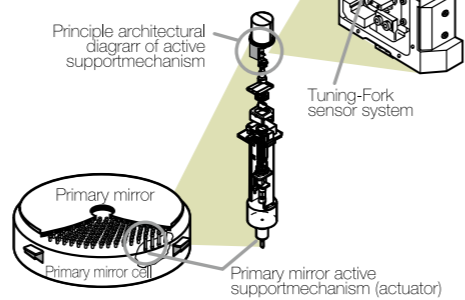
Principle of tuning-fork sensor : stable of vibration frequency

The vibration frequency of a tuning-fork, which produces a reference sound, is extremely stable. The vibrational frequency changes when force is applied. Taking advantage of this property, a tuning-fork sensor can be create by combining two tuning-forks, a top and a bottom, thereby forming a monoblock structure which further enhances the property. Using the principle that vibrational frequency changes when load is applied to the tuning-fork vibrator, we measure force and mass by digital output processing.



Tuning-fork vibrator
Schematic diagram of a tuning-fork sensor

Primary mirror and actuator
Abstract from "The Sky Watcher"



SUBARU pictures presented by NAO

Why we use tuning-fork sensor?

Advantages of the electronic balances and scales with the tuning-fork sensor are high repeatability, excellent stability, high durability, excellent temperature characteristic, low power consumption and compact. We have received good reputations in not only domestic market, but also overseas market.

Eyes to universe : tuning-fork sensor in world's largest optical astronomical telescope

SHINKO DENSHI's tuning-fork sensors are used in the world's largest optical astronomical telescope, SUBARU, built by National Astronomical Observatory of Japan at 4,200-meter summit of Mr. Mauna Kea on the island of Hawaii. With a diameter of 8.2m and a thickness of 20cm SUBARU's reflecting mirror is composed of ultra-low expansion glass. Because the mirror weighs a massive 23 tons, its surface is subject to gravitational distortion, which affects the focus. In order to solve this problem, precision technology to reduce the distortion in the telescope to a level less than $\pm 2\text{mm}$ within a surface diameter of 100km was necessary. 261 actuators which control the mirror surface require an extremely precise power sensor with excellent long-term stability, and among many sensors available, SHINKO DENSHI's tuning-fork sensors have been adopted.

About us

Japan Quality, the seal of reliability

SHINKO DENSHI has started measurement business as small factory in Tokyo in 1963. Since our founding, SHINKO DENSHI has performed all manufacturing processes within company, development, design, processing of parts, assembly and maintenance service. We have succeeded to expand the business

worldwide, and continuously adapted ourselves to ever changing business environment. But we steadily keep core policy, dedication to high quality products. We deliver from Japan not only the precision balances but also the sense of reliability to all business field.



SHINKO DENSHI values our partnerships with our customers.

Our products are highly valued for their quality all over the world. In order to expand further we are building a global sales and service network. Through the products we will continue to value our partnerships with our customers and business associates.



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For detail information of local partners, please contact overseas division in Shinko Denshi head office.

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