

Reaching Worldwide



- ◆ Semi Micro Balance
- ◆ Analytical Balance
- ◆ Moisture Analyzer
- ◆ High Precision Balance
- ◆ Crane Scale
- ◆ Density Kit
- ◆ Weights - E1, E2, F1

Part 1
Weighing & Weights

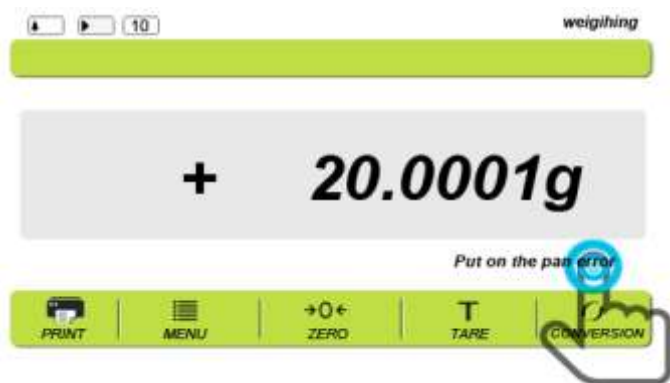
PRODUCT CATALOGUE

2018 - 19



Analytical Balance -Touch Screen

MAB 220T



-  EMFC Electro Magnetic Force Compensation
-  Touch Screen display
-  Percentage Weighing
-  Multiple Weighing Units
-  Density Determination Function
-  RS232C Interface
-  Counting Weighing mode
-  Underhook Weighing
-  Calibration with Internal weight
-  Time
-  Date



Analytical Balance -Touch Screen

SPECIFICATIONS	MODEL	MAB 220T (Touch screen)
	Max. (Capacity)	220 g
	Readability (d)	0.0001 g
	Repeatability ($\pm$)	0.2 mg
	Linearity ($\pm$)	0.4 mg
	Min. (Capacity)	10 mg
	Verification Scale Intervals (e)	1 mg
	Calibration	Motorized Internal Calibration
	Class	Class I
	Display	5 inch Touch Screen
	Make	WENSAR
	Response Time	4 - 5 Sec
	Pan Size (mm)	80 mm
	Tare Range	Full
	Operating Temperature	$\pm 15^{\circ}\text{C}$ to $\pm 25^{\circ}\text{C}$
	Sensitivity Drift $\pm$	2ppm / $^{\circ}\text{C}$
	Density	Function Available
	Key Sound	Yes
	Weighing Chamber	240 x 190 x 265 mm
	Unit	g, mg, ct, oz
	Baud rate Options	1200, 2400, 4800, 9600
	Interface	RS232C
	Power Supply	AC 220V / 50-60 Hz
	Dimension (LxWxH) mm	475 x 315 x 485
	Weight	10 Kg

★ Specifications are subject to change without notice.

Density Determination Kit for solid samples available - optional



Standard Accessories

Instrument
Draft ring
Pan
Pan support
Dust guard
Adaptor
User manual

HPB SERIES - 1 mg

High Precision Balance

HPB 201, HPB 501, & HPB 1001



Electro Magnetic Force Compensation



Density Determination



Underhook Weighing



RS232C Interface



External Calibration



Counting Weighing mode



LCD display



Percentage Weighing



Multiple Weighing Units



TARE



High Precision Balance

SPECIFICATIONS	MODEL	HPB 201	HPB501	HPB 1001
	Capacity	220 g	520 g	1020 g
	Make	WENSAR		
	Readability	0.001 g (1mg)		
	Repeatability (±)	0.001 g		
	Linearity (±)	± 0.002 g		
	Min.(Capacity)	0.1 g		
	Display	LCD		
	Pan Size	80 mm Ø		
	Response Time	4- 5 Sec		
	Calibration	Automatic External		
	Tare Range	Full		
	Operating Temperature	15°C to 30°C		
	Density	Yes		
	Unit	g,ct, ozt, oz, GN, dwt, lb		
	Key Sound	Yes		
	Weighing Chamber Height	195 mm		
	Baudrate	1200, 2400, 4800, 9600		
	Class	I		
	Interface	RS232C		
	Data Output Mode	Command and continous Output		
	Power Supply	AC 220V / 50-60 Hz		
	Dimension (LxWxH) mm	220 x 360 x 345 mm		
	Weight	10 kg		

★ Specifications are subject to change without notice.

Density Determination Kit for solid samples available - optional

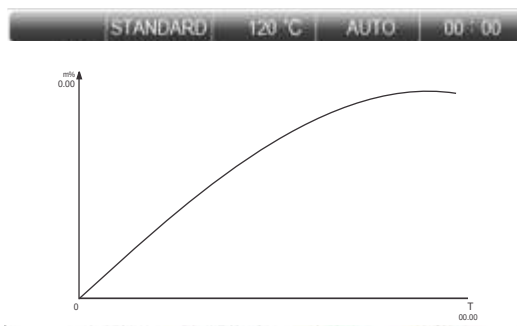


MOISTURE ANALYZER

PGB 1MB

Salient Features

- Halogen Light Heating
- Curve (Graph)
- Temperature and time can be set
- The percentage of Moisture content
- The percentage of dry residual
- Touch Screen
- Store historical setting
- Loadcell Sensor



MOISTURE DETERMINATION (1)

Machine Type : PGB 1MB
Heating Mode : STANDARD
Stop Mode : AUTO STOP
Heating Temp. : 130°C
Elasapsed Time : 03:25
MW : 2.056g
DW : 1.933g
Moisture : 5.98%M
Date : 2017-10-17
Time : 08:16:14



STANDARD ACCESSORIES

The sample pan holder,
Tray handle,
Power cord,
Aluminum sample pan
Instruction Manual

Moisture Analyzer

SPECIFICATIONS

MODEL	PGB 1MB
Capacity	110g
Make	WENSAR
Readability	0.001 g (1mg)
Repeatability (±)	0.001 g
Linearity (±)	0.002 g
Display	Touch Screen
Pan Size	90 mm Ø
Sensor	loadcell
Calibration	Automatic External
Operating Temperature	5°C to 35°C
Heating Source	Halogen lamp
Temp. Sensor	PT - 100
Temperature Setting	40°C~199°C
Temp. Step	1°C
Time Setting	1~99 minutes
Dry Readability	0.01%
Dry Range	100.00% ~ 0.00%
Curve	Yes
Alluminium Sample PAN	Available
No. of Storage	20
Power Supply	AC 220V / 50-60 Hz
Dimension (LxWxH) mm	490 x 360 x 350 mm
Weight	7.5 kg

★ Specifications are subject to change without notice.



Salient Features

- Auto Calibration with External Weight
- Low Battery Indicator
- Multifunction Weighing Units
- Auto Zero tracking.
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- RS232 Interface
- In built rechargeable battery for PGB 200 only.

Precision Balance

PGB 200 / 301

SPECIFICATIONS	MODEL	PGB 200	PGB 301
	Capacity	200 g	300 g
	Readability	0.001 g (1 mg)	
	Repeatability (±)	0.001 g	
	Linearity (±)	0.002 g	
	Pan Size	80 mm	
	Make	WENSAR	
	Display	LCD with backlight	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power supply	AC 220V/ 50-60 Hz	
	Dimension (LxWxH) mm	415 x 405 x 295	
	Weight	5.7 kg	

★ Specifications are subject to change without notice.



Salient Features

- ✦ Low Battery Indication
- ✦ Auto Calibration with External Weight
- ✦ Multifunction Weighing Units
- ✦ Auto Zero tracking
- ✦ Overload Protection Design
- ✦ S.S. Weighing Pan, Level indicator, Adjustable Fit
- ✦ High Resolution, Quick Weighing, Accurate Result
- ✦ In built rechargeable battery for continues use.

Precision Balance

PGB 220 & 321

SPECIFICATIONS	MODEL	PGB 220	PGB 321
	Capacity	200 g	300 g
	Readability	0.001 g (1 mg)	
	Repeatability (±)	0.001 g	
	Linearity (±)	0.002 g	
	Pan Size	90 mm	
	Make	WENSAR	
	Response Time	3 - 4 Sec	
	Calibration	Automatic External	
	Display	LCD with back light	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power supply	AC 220V / 50-60 Hz	
	Dimension (LxWxH) mm	360 x 260 x 355	
	Weight	3.5 kg	

★ Specifications are subject to change without notice.



Precision Gold Balance

PGB 600 & 1000

Salient Features

- ✦ Auto Calibration with External Weight.
- ✦ Low Battery Indicator.
- ✦ Multifunction Weighing Units.
- ✦ Auto Zero tracking.
- ✦ In built rechargeable battery for continues use.
- ✦ Overload Protection Design.
- ✦ S. S. Weighing Pan, Level indicator, Adjustable Fit.
- ✦ Front RED LED display
- ✦ Automatic switch off. option
- ✦ RS232 Interface.

SPECIFICATIONS	MODEL	PGB 600	PGB 1000
	Capacity	600 g	1000 g
	Readability	0.01 g (10 mg)	
	Repeatability (±)	0.01 g	
	Linearity (±)	0.02 g	
	Pan Size	120 Ø mm	
	Make	WENSAR	
	Display	RED LED	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power Supply	AC 220V / 50-60 Hz	
	Dimension (LxWxH) mm	360 x 230 x 140	
	Weight	2.5 kg	

★ Specifications are subject to change without notice.



Salient Features

- ✦ Green LED, Front & Back display
- ✦ Auto Calibration with External Weight.
- ✦ Low Battery Indicator.
- ✦ Multifunction Weighing Units.
- ✦ Auto Zero tracking.
- ✦ In built rechargeable battery for continues use.
- ✦ Piece counting function
- ✦ RS232 Interface.

Precision Gold Balance PGB 630 & 1030

SPECIFICATIONS	MODEL	PGB 630	PGB 1030
	Capacity	600 g	1000 g
	Readability	0.01 g (10 mg)	
	Repeatability (±)	0.01 g	
	Linearity (±)	0.02 g	
	Pan Size	120 Ø mm	
	Make	WENSAR	
	Display	GREEN LED	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power Supply	AC 220V / 50-60 Hz	
	Dimension (LxWxH) mm	330 x 240 x 120	
	Weight	2.2 kg	

★ Specifications are subject to change without notice.



with Glass Windshield

Precision Gold Balance

PGB 610

Salient Features

- Glass Windshield
- Auto Calibration with External Weight
- Low Battery Indicator
- Multifunction Weighing Units
- In built rechargeable battery for continues use
- Auto Zero tracking
- Overload Protection Design
- Front RED LED display
- Automatic Switch Off Option
- High precision loadcell sensor
- RS232 Interface

SPECIFICATIONS	MODEL	PGB 610
	Capacity	600 g
	Readability	0.01 g (10 mg)
	Repeatability (±)	0.01 g
	Linearity (±)	0.02 g
	Pan Size	115 Ø mm
	Make	WENSAR
	Display	RED LED
	Calibration	Automatic External
	Tare Range	Full
	Operating Temperature	10°C to 40°C
	Power Supply	AC 220V / 50-60 Hz
	Dimension (LxWxH) mm	325 x 260 x 350
	Weight	3.7 kg

★ Specifications are subject to change without notice.



Thermal Printer

Thermal Printer

- ✦ Printing method: direct thermal
- ✦ Printing paper width: 58mm
- ✦ Valid printing width: 48mm
- ✦ Resolution 8 /mm (203dpi)
- ✦ Points of each line : 384 points
- ✦ Printing speed: 60 mm/S
- ✦ Printing density: 8 dots/mm, 384 dots/line
- ✦ Printing speed: approx. 70mm/ sec. or 20 lines/sec.
- ✦ RS232 / USB Interface
- ✦ DB25 socket (female), supports RTS/CTS protocol,
- ✦ Ports: 2400, 4800, 9600, 19200, 38400, 57600, 115200bps
- ✦ Power Supply - DC7.5V



WDK-250

Density Determination Kit

According to the Archimedean Principle, Solid Body immersed in a liquid apparently loses as much of its own weight as the weight of the liquid it has displaced. This makes it possible to determine the unknown value. Depending on whether the body in question is liquid or solid.

The international system of units specifies Kg/m^3 as the unit of density. However, the unit g/cm^3 is better suited to lab purpose

Density Kit

- ✦ For solid density determination
- ✦ Suitable for MAB, HPB & PGB Series
- ✦ Can use for other weighing balance also

STANDARD ACCESSORIES

- ✦ Beaker Base
- ✦ Beaker
- ✦ PAN stand
- ✦ Pans suspension
- ✦ Thermometer
- ✦ Upper pan stand



Salient Features

- ✦ Auto Calibration with External Weight
- ✦ Easy to read LCD Display with backlight
- ✦ Multifunction Weighing Units
- ✦ Auto Zero tracking, Low Battery Indicator
- ✦ Overload Protection Design
- ✦ S.S. Weighing Pan, Level indicator, Adjustable Fit
- ✦ High Resolution, Quick Weighing, Accurate Result
- ✦ RS232C Interface
- ✦ In built rechargeable battery for continues use.

Precision Balance

PGB 3010 & 6000

SPECIFICATIONS	MODEL	PGB 3010	PGB 6000
	Capacity	3000 g	6000 g
	Readability	0.01 g (10 mg)	0.1 g (100 mg)
	Repeatability (±)	0.01 g	0.1 g
	Linearity (±)	0.02 g	0.2 g
	Pan Size	180 x 195 mm	
	Make	WENSAR	
	Display	LCD	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power supply	AC 220V/ 50-60 Hz	
	Dimension (LxWxH) mm	440 x 265 x 220	
	Weight	4 kg	

★ Specifications are subject to change without notice.



Salient Features

- Auto Calibration with External Weight
- Easy to read LCD Display with backlight
- Multifunction Weighing Units
- Auto Zero tracking, Low Battery Indicator
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- In built rechargeable battery for continues use.

Precision Balance

PGB 3110 & 6100

SPECIFICATIONS	MODEL	PGB 3110	PGB 6100
	Capacity	3000 g	6000 g
	Readability	0.01 g (10 mg)	0.1 g (100 mg)
	Repeatability (±)	0.01 g	0.1 g
	Linearity (±)	0.02 g	0.2 g
	Pan Size	160 x 160 mm	
	Make	WENSAR	
	Display	LCD	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temperature	10°C to 40°C	
	Power supply	AC 220V/ 50-60 Hz	
	Dimension (LxWxH) mm	440 x 265 x 220	
	Weight	4 kg	

★ Specifications are subject to change without notice.



TTB 3 / 10 / 31



TTB 20HH

Table Top Balance

SPECIFICATIONS	MODEL	TTB 3	TTB 10	TTB 31	TTB 20HH
	Capacity	3 kg	10 kg	30 kg	20kg
	Readability	0.1 g (100 mg)	0.5 g (500 mg)	1 g	0.1 g (100 mg)
	Repeatability (±)	0.1 g	0.5 g	1 g	0.1 g
	Linearity (±)	0.2 g	1.0 g	2 g	0.2 g
	Pan Size (mm)	210 X 260			230 X 320
	Display	RED LED			LCD
	Interface RS232C	Optional			Yes
	Make	WENSAR			
	Tare Range	Full			
	Operating Temp.	10°C to 40°C			
	Power Supply	AC 220V / 50-60 Hz			
	Dimension (LxWxH) mm	365 x 320 x 160			410 x 370 x 145
	Weight	3.5 kg			5 kg

★ Specifications are subject to change without notice.

Salient Features

- Built in rechargeable battery for continues use
- Rust Proof Stainless Steel Platter
- Auto Power Off, Battery Indicator
- Fast Weighing response time
- Overload Protection Design
- Front display

Waterproof Scales available



ECB 300



ECB 600 / 6000

Economic Compact Balance

SPECIFICATIONS	MODEL	ECB 300	ECB 600	ECB 6000
	Capacity	300 g	600 g	6000 g
	Readability	0.01 g (10 mg)	0.1 g (100 mg)	1 g
	Repeatability (±)	0.01 g	0.1 g	1 g
	Linearity (±)	0.02 g	0.2 g	2 g
	Pan Size (mm)	120 Ø	155 x 155	
	Make	WENSAR		
	Display	LCD		
	Calibration	Automatic External		
	Tare Range	Full		
	Operating Temp.	10°C to 40°C		
	Power Supply	AC 220V / 50-60 Hz		
	Dimension (LxWxH) mm	300 x 165 x 90	245 x 170 x 160	
	Weight	1 kg		

★ Specifications are subject to change without notice.

Salient Features

- ◆ Compact and space saving
- ◆ DC Adaptor available
- ◆ ECB 300 with draft shield
- ◆ Auto zero tracking
- ◆ Auto Calibration with External Weight
- ◆ Stable Indicator & Accurate Result.



Platform Balance

Salient Features

- ✦ Accumulation
- ✦ Animal Weighing Mode
- ✦ Up & Low limit alarm
- ✦ Hold Function option
- ✦ Low Battery indication, Power Off automatically
- ✦ Built in rechargeable battery for continues use
- ✦ Rust Proof Stainless steel platter of High Quality
- ✦ Overload Protection Design
- ✦ Back Rail support provided
- ✦ RS-232 Interface

SPECIFICATIONS	MODEL	PFB 100	PFB 300
	Capacity	100 kg	300 kg
	Readability	10 g	20 g
	Repeatability (±)	10 g	20 g
	Linearity (±)	20 g	40 g
	Pan Size (mm)	400 x 400	600 x 600
	Make	WENSAR	
	Display	RED LED	
	Response Time	3 - 4 Sec	
	Calibration	Automatic External	
	Tare Range	Full	
	Operating Temp.	10°C to 40°C	
	Power Supply	AC 220V / 50-60 Hz	
	Dimension (LxWxH) mm	710 x 540 x 190	860 x 770 x 230
	Weight	14 kg	23 kg

★ Specifications are subject to change without notice.

Crane Scales



OCS 5-HPE & OCS 10-HPE

HPE - Heat Proof Enclosure

Range	1000°C	1200°C	1400°C	1500°C
Safe Distance	1200 mm	1500 mm	1800 mm	2000 mm



OCS-5T, 10T

- Remote Control
- Aluminum alloy casing
- Hold Function
- Power Saving Function
- Low Battery Indicator
- Overload alarm



OCS-11W

- Wireless Crane Scale
- Wireless distance 300m
- Wireless Indicator with Printer
- Steel alloy casing
- Overload alarm
- Power saving mode

SPECIFICATIONS

MODEL	OCS-5T	OCS-10T	OCS-11W (Wireless)
Capacity	5 Ton	10 Ton	10 Ton
Readability	2 kg	5 kg	
Repeatability	2 kg	5 kg	
Display	RED LED		LCD
Make	WENSAR		
Control Distance	≤ 20m		
Response Time	6-10 Sec		
Battery	Rechargeable Battery 6V / 4AH		
Overload Warning	110% F.S.		
Safe Overload	125% F.S.		
Operating Temperature	10°C to 40°C		
Power Supply	AC 220V / 50-60 Hz		
Dimension (LxWxH) mm	660 x 380 x 260		390 x 580 x 720
Weight	20 kg	30 kg	62 kg

★ Specifications are subject to change without notice.

★ Optional : Anti Heat Shield, Trolley stand



STANDARD WEIGHTS



Maximum Permissible error for Weights ($\pm$ mg) as per OIML R111 tolerance Table.

OIML R111 Tolerance Table ($\pm$ mg)				
Demomination	E1	E2	F1	F2
50 kg	25	80	250	800
20 kg	10	30	100	300
10 kg	5.0	16	50	160
5 kg	2.5	8.0	25	80
2 kg	1.0	3.0	10	30
1 kg	0.5	1.6	5.0	16
500g	0.25	0.8	2.5	8.0
200 g	0.10	0.3	1.0	3.0
100 g	0.05	0.16	0.5	1.6
50 g	0.03	0.10	0.3	1.0
20 g	0.025	0.08	0.25	0.8
10 g	0.020	0.06	0.20	0.6
5 g	0.016	0.05	0.16	0.5
2 g	0.012	0.04	0.12	0.4
1 g	0.010	0.03	0.10	0.3
500 mg	0.008	0.025	0.08	0.25
200 mg	0.006	0.020	0.06	0.20
100 mg	0.005	0.016	0.05	0.16
50 mg	0.004	0.012	0.04	0.12
20 mg	0.003	0.010	0.03	0.10
10 mg	0.003	0.008	0.025	0.08
5 mg	0.003	0.006	0.020	0.06
2 mg	0.003	0.006	0.020	0.06
1 mg	0.003	0.006	0.020	0.06



E1

OIML Standard Weights - Class E1

SPECIFICATION	Class	E1
	Standard	OIML R111
	Material	Austenitic Stainless Steel
	Construction	Solid single piece fabrication
	Cavity	No cavity adjustment
	Density	8.00g/cm ³
	Magnetic Susceptibility	<0.005
	Intensity of polarization	< 2.5 μ T
	Shape	Cylindrical with knob
	Finish	Mirror Polish
	Packing	Aluminum alloy box
	Accessories	Tweezer, Cloth, Gloves

Specification, colour, designs are subject to change without notice.

Our Range Class E1

E1 - 1mg to 500mg - 12pcs. E1 - 1mg to 200g - 23pcs.

Application

E1 Class weights are recommended for primary reference standard for calibration other reference standard and weights.

It cannot use in General Laboratory.



E2

OIML Standard Weights - Class E2

SPECIFICATION	Class	E2
	Standard	OIML R111
	Material	316 Stainless Steel
	Construction	Solid single piece fabrication
	Cavity	No cavity adjustment
	Density	7.96g/cm ³
	Magnetic Susceptibility	<0.005
	Intensity of polarization	< 8
	Shape	Cylindrical with knob
	Finish	Mirror Polish
	Packing	Aluminum alloy box
	Accessories	Tweezer, Cloth, Gloves

Specification, colour, designs are subject to change without notice.

Our Range Class E2

E2 - 1mg to 500mg - 12pcs. E2 - 1mg to 200g - 23pcs.

E2 - 20kg, E2- 10kg, E2 - 5kg, E2 - 2kg, E2 -1kg, E2 - 500g, E2 - 200g, E2 -100g, E2- 50g, E2 - 20g to 1mg.

Application

E2 Class weights are recommended for the calibration of micro, semi-micro & analytical balances where very high accuracy is required.

E2 Class weights also can use to calibrate F1 Class weights.

We can Provide Calibration Certificate from NABL Accredited Lab (Charges applicable)

F1



OIML Standard Weights - Class F1

SPECIFICATION	Class	F1
	Standard	OIML R111
	Material	304 Stainless Steel
	Construction	One or two pieces of same material
	Cavity	May contain adjusting cavity
	Density	7.90g/cm ³
	Magnetic Susceptibility	<0.05
	Intensity of polarization	< 25
	Shape	Cylindrical with knob
	Finish	Mirror Polish
	Packing	Aluminum alloy box / ABS Box
	Accessories	Tweezer, Gloves

Specification, colour, designs are subject to change without notice.

Our Range Class F1

F1 - 1mg to 500mg - 12pcs. F1 - 1mg to 200g - 23pcs. F1 - 1mg to 500g - 24pcs. F1 - 1mg to 1kg - 25pcs. F1 - 1mg to 2kg - 27pcs.

F1 - 20kg, F1- 10kg, F1 - 5kg, F1 - 2kg, F1 -1kg, F1 - 500g, F1 - 200g, F1 -100g, F1 - 50g, F1 - 20g to 1mg.

Application

F1 Class weights are recommended for calibration High Precision, Top loading balances with readability 0.001g .

F1 Class weights also can be use calibrate F2 Class weights.

Limits of polarization

The magnetization, M , expressed in terms of the polarization, $\mu_0 M$, should not exceed the values given

Weight Class	E1	E2	F1	F2
Maximum Polarization $\mu_0 M$, (μT)	2.5	8	25	80

Limits of magnetic susceptibility

Weight Class	E1	E2	F1	F2
$m \leq 1g$	0.25	0.9	10	-
$2g \leq m \leq 10g$	0.06	0.18	0.7	4
$20g \leq m$	0.02	0.07	0.2	0.8

Maximum value Surface Roughness

Weight Class	E1	E2	F1	F2
R_z (μm)	0.5	1	2	5
R_a (μm)	0.1	0.2	0.4	1

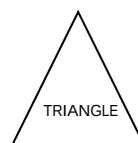
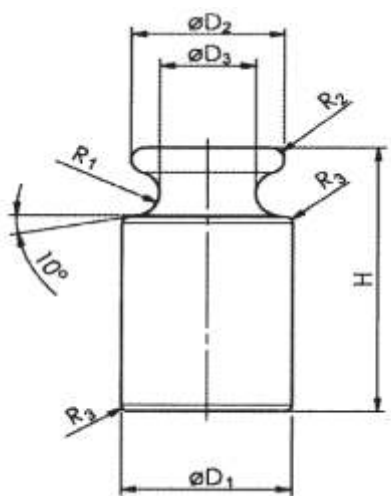
Ambient Temperature during the calibration

Weight Class	Temperature change during calibration
E1	$\pm 0.3^\circ C$ per hour with a maximum of $\pm 0.5^\circ C$ per 12 hours
E2	$\pm 0.7^\circ C$ per hour with a maximum of $\pm 1^\circ C$ per 12 hours
F1	$\pm 1.5^\circ C$ per hour with a maximum of $\pm 2^\circ C$ per 12 hours
F2	$\pm 2^\circ C$ per hour with a maximum of $\pm 3.5^\circ C$ per 12 hours

Humidity

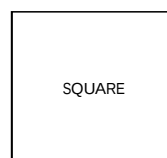
Weight Class	Range of relative humidity (hr) of the air (3)
E1	40 % to 60 % with a maximum of ± 5 % per 4 hours
E2	40 % to 60 % with a maximum of ± 10 % per 4 hours
F1, F2	40 % to 60 % with a maximum of ± 15 % per 4 hours

SHAPES & DIMENSIONS



1mg,
10mg
100mg

Triangle
1 segment



2mg
20mg
200mg

Square
2 segments



5mg
50mg
500mg

Pentagon
5 segments

Accuracy differentiate between E1, E2, F1, F2 Class Weights (Example 100g)

Maximum Permissible error for 100g Weight ($\pm$ mg)

E1 - 100g $\pm$ 0.05mg = 100.0000**5**g to 99.9999**5**g

E2 - 100g $\pm$ 0.16mg = 100.000**16**g to 99.999**84**g

F1 - 100g $\pm$ 0.5mg = 100.000**50**g to 99.999**50**g

F2 - 100g $\pm$ 1.60mg = 100.00**160**g to 99.99**840**g

Optional Accessories



Weights Class Selection for Calibration of Weighing Scales	Capacity \ Accuracy	100 mg	10 mg	1 mg	0.1 mg	< 0.1 mg
	50g	-	M1	F2	E2	E1
	100 g	-	M1	F1	E1	E1
	500 g	M1	F2	E2	-	-
	1 kg	M1	F1	E1	-	-
	5 kg	F2	E2	-	-	-
	10 kg	F1	E1	-	-	-

WEIGHTS SEQUENCE

Sequence	1mg-500mg	1mg-100g	1mg-200g	1mg-500g	1mg-1kg	1mg-2kg	1mg-5kg	1mg-10kg	1kg-5kg
1 mg	1	1	1	1	1	1	1	1	.....
2 mg	2	2	2	2	2	2	2	2	.....
5 mg	1	1	1	1	1	1	1	1	.....
10 mg	1	1	1	1	1	1	1	1	.....
20 mg	2	2	2	2	2	2	2	2	.....
50 mg	1	1	1	1	1	1	1	1	.....
100 mg	1	1	1	1	1	1	1	1	.....
200 mg	2	2	2	2	2	2	2	2	.....
500 mg	1	1	1	1	1	1	1	1	.....
1 g	.....	1	1	1	1	1	1	1	.....
2 g	.....	2	2	2	2	2	2	2	.....
5 g	.....	1	1	1	1	1	1	1	.....
10 g	.....	1	1	1	1	1	1	1	.....
20 g	.....	2	2	2	2	2	2	2	.....
50 g	.....	1	1	1	1	1	1	1	.....
100 g	.....	1	1	1	1	1	1	1	.....
200 g	.....	.....	2	2	2	2	2	2	.....
500 g	.....	.....	.....	1	1	1	1	1	.....
1 kg	.....	.....	.....	.....	1	1	1	1	1
2 kg	.....	.....	.....	.....	.....	2	2	2	2
5 kg	.....	.....	.....	.....	.....	.....	1	1	1
10 kg	.....	.....	.....	.....	.....	.....	.....	1	.....
20 kg	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	12	21	23	24	25	27	28	29	4

WEIGHTS HANDLING Safety Precautions

Frequency of Use, Care, Handling and environmental condition all play a major role in long term stability of Weights

- ✦ Please be very careful after receive the parcel of weights to open its packing
- ✦ Store in cupboard for protect from dust and atmospheric pollution by glass covers
- ✦ When not in use weights should be also store under cover to keep them as free from contamination as possible
- ✦ Weights should be used in extremely stable environment
- ✦ Never put weight on any surface
- ✦ Never touch the weights with bare hand, Always use with gloves, lifter, tweezers to handle the weights
- ✦ After use keep Weights in the Original Packing Box
- ✦ One set of weights should not be mix with other sets
- ✦ Jingles or falling down is strictly forbidden, in avoid of any scratch or jingle
- ✦ No touch any erosive matters
- ✦ Proper handling method must be used to ensure that the weight is not damaged in use
- ✦ Always weights should be kept properly and carefully
- ✦ If well handled under ideal conditions weights no need to clean.
- ✦ Weight of less than 10mg nominal mass should not be cleaned.
- ✦ If necessary clean according the class and its proper process
- ✦ After cleaning all weights should be allowed to stabilize.
- ✦ When you send weights for calibration / re-calibration weights set must be covered packed in large container or cartons to protect weights and weight case
- ✦ Heavy Weights 10kg & 20kg should be handle with suitable lifters

LABMAN Range of
Scientific Instruments
(Part II Catalogue)



UV-VIS. DOUBLE BEAM



UV- VIS. SINGLE BEAM
Professional



UV-VIS. SINGLE BEAM
Basic



VISIBLE - SINGLE BEAM



TURBIDITY METER



DIGITAL
AUTOMATIC POLARIMETER



VISUAL COLORIMETER



GRADIENT THERMAL CYCLER PCR



PH METER - 5 POINT



CONDUCTIVITY METER



MULTIPARAMETER



ION METER - 5 POINT



CERAMIC HOTPLATE



ABBE REFRACTROMETER



TOUCH SCREEN
REFRACTROMETER



pH Electrodes & ISEs
ION SELECTIVE ELECTODES



ICE FLAKER



DIGITAL ULTRASONIC CLEANER



PROBE SONICATOR



ROTATIONAL VISCOMETER

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