

# ELECTRONIC ANALYTICAL BALANCES

DATA  
OUTPUT



37



printer (optional)

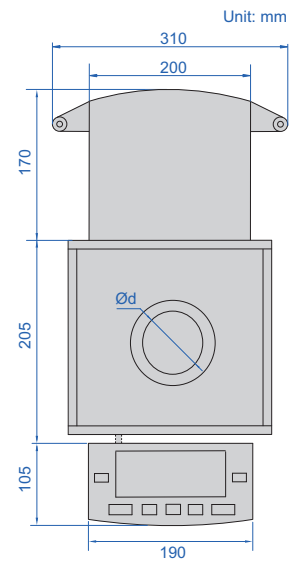
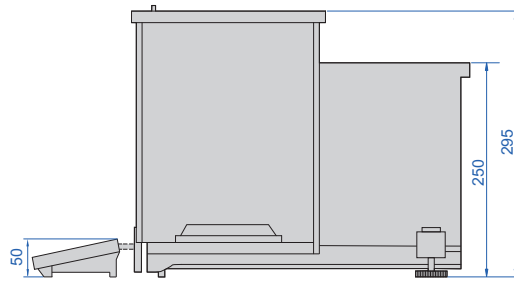


calibration weight  
(included in 8310-120M,  
8310-210M and 8310-320M)



8310-320A

- Rear electromagnetic sensor
- Separated display unit and weighing unit, reduce vibration error
- Digital processing technology improves reading stability and response speed for micro sample addition, sample weight and balance reading is consistent
- Unit: g, oz, ct, lb
- Weighing, counting, taring, percentage
- Data output



## SPECIFICATION

Code	8310-120M	8310-210M	8310-320M	8310-120A	8310-210A	8310-320A
Calibration	external calibration			internal calibration		
Maximum weighing	120g	210g	320g	120g	210g	320g
Minimum weighing	10mg	10mg	10mg	10mg	10mg	10mg
Resolution (d)	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Verification interval (e)	1mg	1mg	1mg	1mg	1mg	1mg
Accuracy (m is load)	m≤50g: ±0.5mg; 50g<m≤200g: ±1mg; m>200g: ±1.5mg			m≤50g: ±0.5mg; 50g<m≤200g: ±1mg; m>200g: ±1.5mg		
Repeatability	±0.1mg					
Linearity	±0.2mg					
Stabilization time	2.5s					
Weighing pan size (Ød)	Ø90mm					
Output	RS232					
Operation temperature	10~30°C					
Operation humidity	20~85%RH					
Power supply	power adapter (12V/2A)					
Dimension (L×W×H)	480×310×320mm					
Weight	6kg					

## OPTIONAL ACCESSORY

RS232 cable	8304-CABLE *
Printer	8303-PRINTER

\* Used to connect with computers

DATA  
OUTPUT

## ELECTRONIC ANALYTICAL BALANCES (BASIC TYPE)

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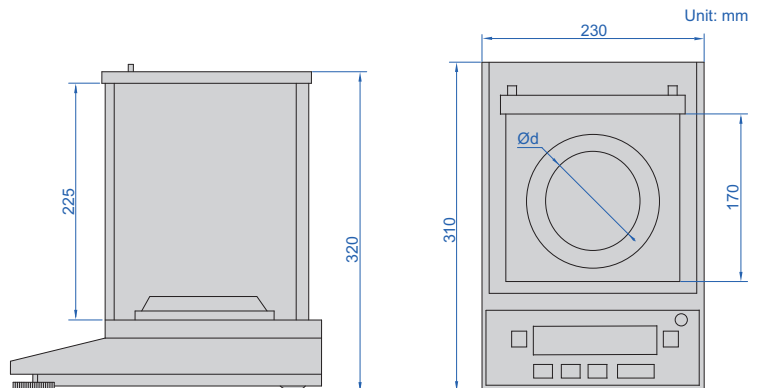
8304-120



calibration weight  
(included)



printer (optional)



- Downward-mounted electromagnetic sensor
- Weighing, counting, taring, percentage
- LCD display, with backlight
- Data output
- Unit: g, ct, oz, lb

### SPECIFICATION

Code	8304-120	8304-220
Maximum weighing	120g	220g
Minimum weighing	10mg	10mg
Resolution (d)	0.1mg	0.1mg
Verification interval (e)	1mg	1mg
Accuracy (m is load)	m≤50g: ±0.5mg; 50g<m≤120g: ±1mg	m≤50g: ±0.5mg; 50g<m≤200g: ±1mg; m>200g: ±1.5mg
Repeatability	±0.2mg	
Linearity	±0.2mg	
Stabilization time	2.5s	
Output	RS232	
Weighing pan size (Ød)	Ø90mm	
Operation temperature	10~30°C	
Operation humidity	20~85%RH	
Power supply	power adapter (12V/2A)	
Dimension (L×W×H)	230×310×320mm	

### OPTIONAL ACCESSORY

RS232 cable	8304-CABLE *
Printer	8303-PRINTER
Data output cable (keyboard format)	7302-8304 page 22

\*Used to connect with computers

# ELECTRONIC PRECISION BALANCES

DATA  
OUTPUT



8303-520

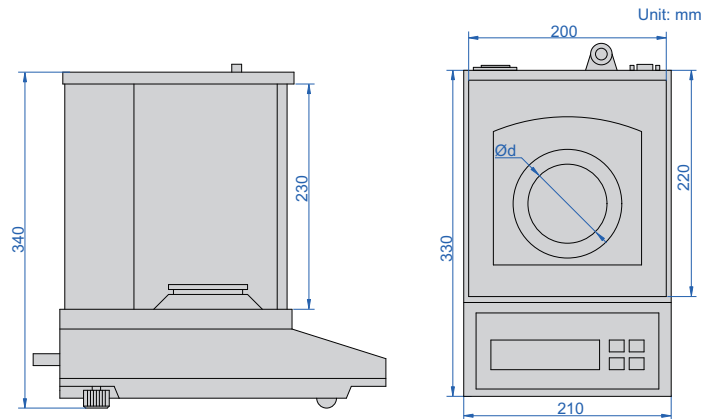
- Aluminum alloy shell, wind shield, three side glass sliding doors
- Electromagnetic balance sensor
- Unit: g, ct, ozt, oz, gn, dwt, mg
- Weighing, counting, taring
- Data output
- With a hook at the bottom



class F1 calibration weight (included)



printer (optional)



## SPECIFICATION

Code	8303-220	8303-320	8303-520	8303-620	8303-1020	8303-1520	8303-2020
Maximum weighing	220g	320g	520g	620g	1020g	1520g	2020g
Minimum weighing	20mg	20mg	100mg	100mg	100mg	100mg	100mg
Resolution (d)	1mg	1mg	1mg	1mg	1mg	1mg	1mg
Verification interval (e)	10mg	10mg	10mg	10mg	10mg	10mg	10mg
Accuracy (m is load)	m≤50g: ±5mg 50g<m≤200g: ±10mg m>200g: ±15mg		m≤500g: ±5mg m>500g: ±10mg				m≤500g: ±5mg 500g<m≤2000g: ±10mg m>2000g: ±15mg
Weighing pan size (Ød)	Ø80mm				Ø120mm		
Operation temperature	15~30°C		18~23°C				
Operation humidity	40%~80%RH		50%~70%RH				
Power supply	220V, 50/60Hz						
Dimension (L×W×H)	330×210×340mm						

## OPTIONAL ACCESSORY

RS232 cable	8301-CABLE *
Printer	8303-PRINTER
Data output cable (keyboard format)	7302-8001 page 22
Wireless transmitter (receiver is needed)	7315-8301 page 8

\*Used to connect with computers

DATA  
OUTPUT

TOUCH  
SCREEN

INTERNAL  
CALIBRATION

## ELECTRONIC PRECISION BALANCES



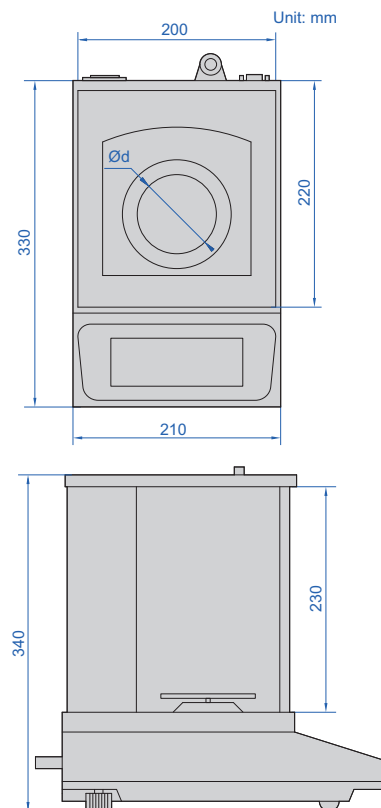
class F1 calibration  
weight (included)



printer (optional)



8319-320



- Built-in calibration weights, automatic internal calibration
- Large touchscreen display
- Weighing, counting, taring, percentage display, density detection
- Aluminium alloy shell, wind shield, three side glass sliding doors
- Unit: g, ct, ozt, oz, gn, dwt, mg
- Electromagnetic balanced sensor
- With a hook at the bottom
- Data output

### SPECIFICATION

Code	8319-220	8319-320	8319-520	8319-620	8319-1020	8319-1520
Maximum weighing	220g	320g	520g	620g	1020g	1520g
Minimum weighing	20mg	20mg	100mg	100mg	100mg	100mg
Resolution (d)	1mg	1mg	1mg	1mg	1mg	1mg
Verification interval (e)	10mg	10mg	10mg	10mg	10mg	10mg
Accuracy (m is load)	m≤50g: ±5mg 50g<m≤200g: ±10mg m>200g: ±15mg		m≤500g: ±5mg m>500g: ±10mg			
Weighing pan size (Ød)	Ø80mm				Ø120mm	
Operation temperature	15~30°C		18~23°C			
Operation humidity	40%~80%RH		50%~70%RH			
Power supply	220V, 50/60Hz					
Dimension (L×W×H)	330×210×340mm					

### STANDARD DELIVERY

Main unit	1 pc
Calibration weight	1 pc

### OPTIONAL ACCESSORY

RS232 cable	8301-CABLE *
Printer	8303-PRINTER
Data output cable (keyboard format)	7302-8001 page 22
Wireless transmitter (receiver is needed)	7315-8301 page 8

\* Used to connect with computers

# ELECTRONIC BALANCES

DATA  
OUTPUT

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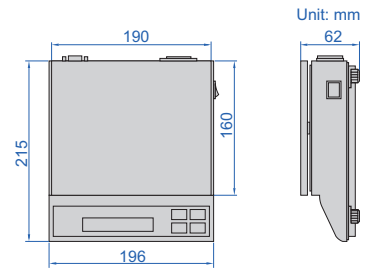
8301-3000



windshield  
(included in 8301-300,  
8301-600 and 8301-1200)



calibration weight  
(included in 8301-300,  
8301-600 and 8301-1200)



- Automatic zero when power on
- Unit: g (gram), ct (carat), ozt (troy ounce)
- Weighing, counting, taring
- Overload alarm
- Data output

## SPECIFICATION

Code	8301-300	8301-600	8301-1200	8301-3000	8301-6000
Maximum weighing	300g	600g	1200g	3000g	6000g
Minimum weighing	0.2g	0.2g	0.2g	2g	2g
Resolution (d)	0.01g	0.01g	0.01g	0.1g	0.1g
Verification interval (e)	0.1g	0.1g	0.1g	1g	1g
Accuracy (m is load)	m≤50g: ±0.05g; 50g<m≤200g: ±0.1g; m>200g: ±0.15g		m≤500g: ±0.05g; m>500g: ±0.1g	m≤500g: ±0.5g; 500g<m≤2000g: ±1g; m>2000g: ±1.5g	
Weighing pan size	Ø135mm			190×160mm	
Operation temperature	0~40°C				
Operation humidity	≤80%RH				
Power supply	220V, 50/60Hz				
Dimension (L×W×H)	215×196×62mm				

## OPTIONAL ACCESSORY

RS232 cable	8301-CABLE*
Data output cable (keyboard format)	7302-8001 page 22
Wireless transmitter (receiver is needed)	7315-8301 page 8

\*Used to connect with computers



DATA  
OUTPUT

## ELECTRONIC BALANCES (STANDARD TYPE)

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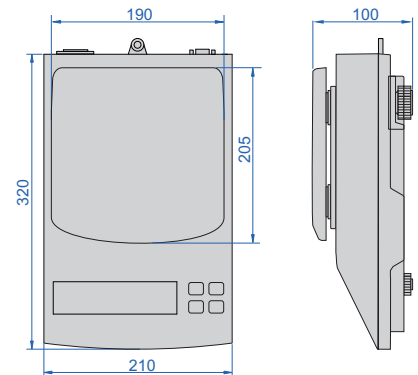


8305-5000

Unit: mm



calibration weight  
(included in 8305-2000  
and 8305-3000)



- LCD with back light
- Unit: g, ct, ozt, oz, GN, dwt, lb, kg
- Weighing, counting, taring
- With a hook at the bottom
- Data output

### SPECIFICATION

Code	8305-2000	8305-3000	8305-5000	8305-6000
Maximum weighing	2kg	3kg	5kg	6kg
Minimum weighing	0.5g	0.5g	0.5g	0.5g
Resolution (d)	0.01g	0.01g	0.01g	0.01g
Verification interval (e)	0.1g	0.1g	0.1g	0.1g
Accuracy (m is load)	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g m>2kg: ±0.15g	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g m>2kg: ±0.15g	m≤0.5kg: ±0.05g; 0.5kg<m≤2kg: ±0.1g m>2kg: ±0.15g
Weighing pan size	190×205mm			
Output	RS232			
Operation temperature	0~40°C			
Operation humidity	≤80%RH			
Power supply	220V, 50/60Hz			
Dimension (L×W×H)	320×210×100mm			

### OPTIONAL ACCESSORY

RS232 cable	8301-CABLE*
Printer	8303-PRINTER
Data output cable (keyboard format)	7302-8001 page 22
Wireless transmitter (receiver is needed)	7315-8301 page 8



printer (optional)

\*Used to connect with computers

# INDUSTRIAL ELECTRONIC BALANCES (BASIC TYPE)

POPULAR MODEL



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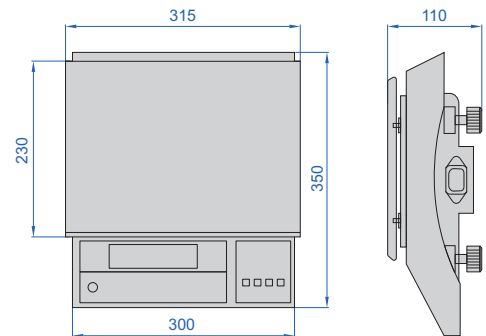
printer (optional)



8306-20AD

- Double weighing pan in stainless steel and plastic
- Weighing, simple counting, taring
- Strain balance sensor
- LCD display, with backlight
- Unit: g, lb, ct, oz
- Overload alarm

Unit: mm



### SPECIFICATION

Operation temperature	-10~40°C
Operation humidity	≤85%RH
Dimension of pan	315×230mm
Power supply	rechargeable lead acid battery (6V/4Ah)
Output	≤2s

Code	Maximum weighing	Resolution (d)	Minimum weighing	Verification interval (e)	Number of verification interval (n)	Accuracy (m is load)	Output	
8306-10	10kg	1g	20g	10g	1000	m≤5kg: ±5g; m>5kg: ±10g	no	
8306-15	15kg	1g	20g	10g	1500	m≤5kg: ±5g; m>5kg: ±10g		
8306-20	20kg	1g	20g	10g	2000	m≤5kg: ±5g; m>5kg: ±10g		
8306-30	30kg	1g	20g	10g	3000	m≤5kg: ±5g; 5kg<m≤20kg: ±10g; m>20kg: ±15g		
8306-5A	5kg	0.1g	5g	1g	5000	±0.5g		
8306-10A	10kg	0.1g	5g	1g	10000	m≤5kg: ±0.5g; m>5kg: ±1g		
8306-15A	15kg	0.1g	5g	1g	15000	m≤5kg: ±0.5g; m>5kg: ±1g		
8306-20A	20kg	0.1g	5g	1g	20000	m≤5kg: ±0.5g; m>5kg: ±1g		
8306-10D	10kg	1g	20g	10g	1000	m≤5kg: ±5g; m>5kg: ±10g		RS232
8306-15D	15kg	1g	20g	10g	1500	m≤5kg: ±5g; m>5kg: ±10g		
8306-20D	20kg	1g	20g	10g	2000	m≤5kg: ±5g; m>5kg: ±10g		
8306-30D	30kg	1g	20g	10g	3000	m≤5kg: ±5g; 5kg<m≤20kg: ±10g; m>20kg: ±15g		
8306-5AD	5kg	0.1g	5g	1g	5000	±0.5g		
8306-10AD	10kg	0.1g	5g	1g	10000	m≤5kg: ±0.5g; m>5kg: ±1g		
8306-15AD	15kg	0.1g	5g	1g	15000	m≤5kg: ±0.5g; m>5kg: ±1g		
8306-20AD	20kg	0.1g	5g	1g	20000	m≤5kg: ±0.5g; m>5kg: ±1g		

### OPTIONAL ACCESSORY

RS232 cable	8306-CABLE *
Printer	8306-PRINTER

\* Used to connect with computers



DATA  
OUTPUT

## INDUSTRIAL ELECTRONIC BALANCES

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alarm light (optional)



printer (optional)

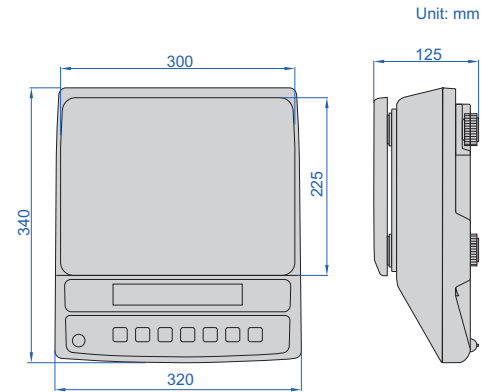


8307-15K

- Zero-setting, weighing, counting, checking alarm
- Subtracting tare value, accumulation, percentage display
- Overload alarm
- LCD display, with backlight
- Automatic power off
- Data output
- Unit: kg, lb, g, oz, t (ola)

### SPECIFICATION

Operation temperature	-10~40°C
Operation humidity	30%~80%RH
Dimension of pan	300×225mm
Power supply	rechargeable lead acid battery (6V/4Ah)
Output	RS232



Code	Maximum weighing	Resolution (d)	Minimum weighing	Verification interval (e)	Number of verification interval (n)	Accuracy (m is load)
8307-6K	6kg	0.05g	2.5g	0.1g	6000	m≤500g: ±0.05g; 500g<m≤2kg: ±0.1g; m>2kg: ±0.15g
8307-15K	15kg	0.1g	5g	1g	15000	m≤5kg: ±0.5g; m>5kg: ±1g
8307-30K	30kg	0.2g	10g	1g	30000	m≤5kg: ±0.5g; 5kg<m≤20kg: ±1g; m>20kg: ±1.5g
8307-3KA	3kg	0.05g	2.5g	0.1g	30000	m≤500g: ±0.05g; 500g<m≤2kg: ±0.1g; m>2kg: ±0.15g
8307-6KA	6kg	0.1g	5g	1g	6000	m≤5kg: ±0.5g; m>5kg: ±1g
8307-15KA	15kg	0.2g	10g	1g	15000	m≤5kg: ±0.5g; m>5kg: ±1g
8307-30KA	30kg	0.5g	25g	1g	30000	m≤5kg: ±0.5g; 5kg<m≤20kg: ±1g; m>20kg: ±1.5g
8307-3KB	3kg	0.1g	2g	1g	3000	m≤500g: ±0.5g; 500g<m≤2kg: ±1g; m>2kg: ±1.5g
8307-6KB	6kg	0.2g	10g	1g	6000	m≤5kg: ±0.5g; m>5kg: ±1g
8307-15KB	15kg	0.5g	25g	1g	15000	m≤5kg: ±0.5g; m>5kg: ±1g
8307-30KB	30kg	1g	20g	10g	3000	m≤5kg: ±5g; 5kg<m≤20kg: ±10g; m>20kg: ±15g

### OPTIONAL ACCESSORY

Alarm light	8001-ALARM
Printer	8001-PRINTER
Data output cable (keyboard format)	7302-8001 page 22
Wireless transmitter (receiver is needed)	7315-8001 page 8



# INDUSTRIAL ELECTRONIC BALANCES

DATA  
OUTPUT



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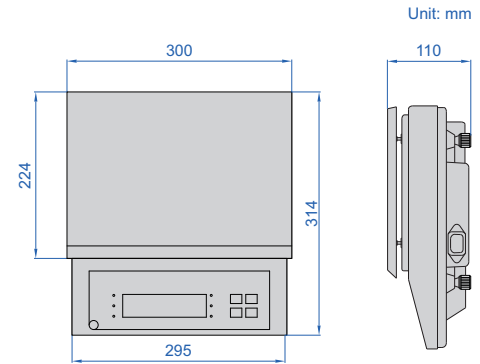
- Double weighing pan in stainless steel and plastic
- Automatic calibration, zero tracking, weighing, counting, taring
- Aluminium alloy base
- Strain balance sensor
- Data output
- Unit: kg, lb



8308-30KB

### SPECIFICATION

Operation temperature	0~40°C
Operation humidity	≤80%RH
Dimension of pan	300×224mm
Power supply	rechargeable lead acid battery (6V/4Ah)
Output	RS232



Code	Maximum weighing	Resolution (d)	Minimum weighing	Verification interval (e)	Number of verification interval (n)	Accuracy (m is load)
8308-3K	3kg	0.1g	2g	1g	3000	m≤500g: ±0.5g; 500g<m≤2kg: ±1g; m>2kg: ±1.5g
8308-6K	6kg	0.1g	2g	1g	6000	m≤500g: ±0.5g; 500g<m≤2kg: ±1g; m>2kg: ±1.5g
8308-10K	10kg	1g	20g	10g	1000	m≤5kg: ±5g; m>5kg: ±10g
8308-15K	15kg	0.5g	25g	1g	15000	m≤5kg: ±0.5g; m>5kg: ±1g
8308-20K	20kg	1g	20g	10g	2000	m≤5kg: ±5g; m>5kg: ±10g
8308-30K	30kg	1g	20g	10g	3000	m≤5kg: ±5g; 5kg<m≤20kg: ±10g; m>20kg: ±15g
8308-3KA	3kg	0.5g	10g	1g	3000	m≤500g: ±0.5g; 500g<m≤2kg: ±1g; m>2kg: ±1.5g
8308-6KA	6kg	0.5g	10g	1g	6000	m≤500g: ±0.5g; 500g<m≤2kg: ±1g; m>2kg: ±1.5g
8308-15KA	15kg	1g	20g	10g	1500	m≤5kg: ±5g; m>5kg: ±10g
8308-30KA	30kg	5g	100g	10g	3000	m≤5kg: ±5g; 5kg<m≤20kg: ±10g; m>20kg: ±15g
8308-10KB	10kg	0.1g	5g	1g	10000	m≤5kg: ±0.5g; m>5kg: ±1g
8308-20KB	20kg	0.1g	5g	1g	15000	m≤5kg: ±0.5g; m>5kg: ±1g
8308-30KB	30kg	0.1g	5g	1g	30000	m≤5kg: ±0.5g; 5kg<m≤20kg: ±1g; m>20kg: ±1.5g

### OPTIONAL ACCESSORY

RS232 cable	8301-CABLE*
Printer	8303-PRINTER
Data output cable (keyboard format)	7302-8001 page 22
Wireless transmitter (receiver is needed)	7315-8301 page 8

\*Used to connect with computers



printer (optional)

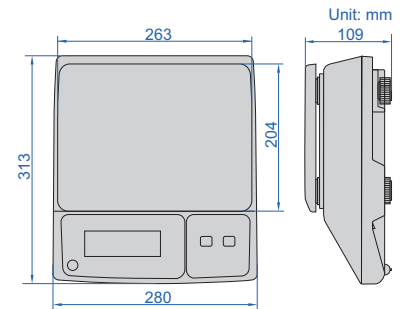


## WEIGHING SCALES (OIML CERTIFICATE)

- LCD display, with backlight
- Zero-setting, subtracting tare value
- Overload alarm
- Automatic power off
- OIML certificate (No. 0200-NAWI-04601)



8002-30M



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### SPECIFICATION

Code	8002-6M	8002-15M	8002-30M	8002-6MD	8002-15MD	8002-30MD
Maximum weighing	3/6kg	6/15kg	15/30kg	3/6kg	6/15kg	15/30kg
Minimum weighing	20g	40g	100g	20g	40g	100g
Resolution (d)	1/2g	2/5g	5/10g	1/2g	2/5g	5/10g
Verification interval (e)	2g	5g	10g	2g	5g	10g
Accuracy (m is load)	m≤3kg: ±1g 3kg<m≤6kg: ±2g	m≤6kg: ±2g 6kg<m≤15kg: ±5g	m≤15kg: ±5g 15kg<m≤30kg: ±10g	m≤3kg: ±1g 3kg<m≤6kg: ±2g	m≤6kg: ±2g 6kg<m≤15kg: ±5g	m≤15kg: ±5g 15kg<m≤30kg: ±10g
Output	no			RS232		
Operation temperature	-10~40°C					
Power supply	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)					
Dimensions of pan	263×204mm					



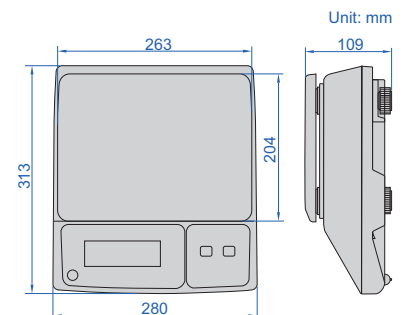
printer (optional)

## WEIGHING SCALES (HIGH PRECISION)

- LCD display, with backlight
- Zero-setting, subtracting tare value
- Overload alarm
- Automatic power off



8001-30



### SPECIFICATION

Code	8001-6	8001-15	8001-30	8001-6D	8001-15D	8001-30D
Maximum weighing	6kg	15kg	30kg	6kg	15kg	30kg
Minimum weighing	4g	10g	20g	4g	10g	20g
Resolution (d)	0.2g	0.5g	1g	0.2g	0.5g	1g
Accuracy (m is load)	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g
Units	kg, lb			kg		
Output	no			RS232		
Operation temperature	-10~40°C					
Power supply	rechargeable lead acid battery (6V/3.2Ah)					
Dimensions of pan	263×204mm					

### OPTIONAL ACCESSORY (for scales with RS232)

Printer	8001-PRINTER
Data output cable (keyboard format)	7302-8001 page 22
Wireless transmitter (receiver is needed)	7315-8001 page 8

## COUNTING SCALES

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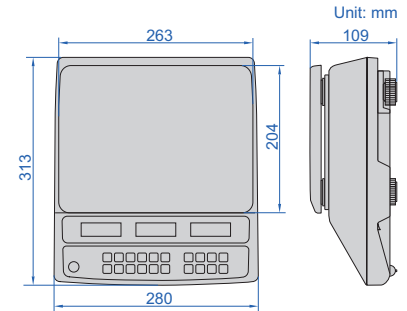


printer (optional)

- LCD display, with backlight
- Zero-setting, subtracting tare value, counting, accumulation, checking alarm
- Overload alarm
- Units: kg, g, lb, tj, hj, lb-oz



8101-30



### SPECIFICATION

Code	8101-6	8101-15	8101-30	8101-6D	8101-15D	8101-30D
Maximum weighing	6kg	15kg	30kg	6kg	15kg	30kg
Minimum weighing	4g	10g	20g	4g	10g	20g
Resolution (d)	0.2g	0.5g	1g	0.2g	0.5g	1g
Accuracy (m is load)	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g	m≤1kg: ±1g 1kg<m≤4kg: ±2g m>4kg: ±3g	m≤2.5kg: ±2.5g 2.5kg<m≤10kg: ±5g m>10kg: ±7.5g	m≤5kg: ±5g 5kg<m≤20kg: ±10g m>20kg: ±15g
Output	no			RS232		
Operation temperature	-10~40°C					
Power supply	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)					
Dimensions of pan	263×204mm					

### OPTIONAL ACCESSORY (for scales with RS232)

Printer **8001-PRINTER**

## WEIGHING SCALES (ECONOMIC TYPE)



- Unit: g, oz, lb, tl



8003-3

### SPECIFICATION

Code	8003-3	8003-6	8003-10
Maximum weighing	3kg	6kg	10kg
Minimum weighing	2g	10g	20g
Resolution (d)	0.1g	0.5g	1g
Accuracy	±0.5g	±2.5g	±5g
Weighing pan size	157×157mm		
Operation temperature	5~35°C		
Power supply	2×AAA batteries, power adapter		
Dimension (L×W)	160×225mm		