EXCELL PRECISION
PRODUCT CATALOG

Leading the Way in High-Tech
Scale-IoT® Innovation

EXCELL
Since ▶ 1979

ENTERPRISE
PROFILE

EXCELL Precision, founded in 1979, is a global manufacturer and marketer of precision instrument for use in laboratory, industrial and retailing applications. EXCELL is a an innovative leader in the industry. With our innovative products and services, we are helping our customer across the entire globe to implement balances, weighing and scales solutions in a variety of industries and applications. We currently are exporting our solutions to over 150 countries.

EXCELL distinguishes itself from the competition by investing in its research and development, producing scales with high quality and reasonable pricing, and committing to customer satisfaction.

EXCELL Precision Balances are made for reliable and high-precision weighing both in the lab and under harsh industrial conditions. Our Controllers and Weighing Indicators provide you accurate results and fast material transfer in applications from basic filling to complex batching process. Our high-quality bench scales and portable scales, with efficient and reliable weighing, are used for any type of industrial application. Our Retail Solutions are perfectly placed for weighing, labeling, ticketing, packaging needs.

150$^+$
COUNTRY SALES

45$^+$ YEARS
INDUSTRY EXPERIENCE

Icons in this catalog represent different product features for easy identification.

Wi-Fi | **BT** Bluetooth | RS232 | IP68 | IP69 | Lithium Ion battery | Mechanical switch keys | Wireless Charging

CONTENTS

MILESTONE

1981
Development of
Charging Technology

1988
NTEP and OIML
Certified

1995
Shanghai EXCELL
Established

1979
Company Established

1986
Factory Establishment

1991
Entered
The China Market

1980
First Mechanical
Scale Launched

1985
The First Load Cell
Digital Scale Launched
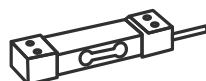
1989
The World's First
Bestselling
Rechargeable Scale

1997
Obtained The First
EU TYPE
Certification

2004
- RCBS First Generation Powder Dispenser
- The First Implementation of The ERP System

2016
Wireless Scale Series

e-Accüra
2018
Acquire e-Accüra and Co-market Globally

2025
- Marin IP68 & IP69 Waterproof Weighing Scale
- QUEEN & GALAXY NTEP Certified

IP68
2013
IP68 Scale & Indicator

2020
Lithium-powered Scale

Forging the future, continuing the legacy.

2005
- Obtained the European NAWI Certification
- Obtained the First American NTEP Certification

2017
The Leading Company in China's Electronic Scale Industry

2024 **IP69**
Queen / Galaxy IP68 & IP69 Certified

1999
New Headquarters Established

2014
IP68 Wireless Charging Waterproof Weighing Scale

2023
SUB Waterproof Weighing Scale Innovative Moisture-Resistant IP68 & IP69 Certified

1998 **ISO**
- The Nation's First High-Precision Balance "BH" Launched
- ISO 9001 Certified
- The First Batch Weighing Controller Launched

SNAPSHOTS IN TIME

WITNESSING EVERY STEP WE TAKE

This photo captures our team in the early days of EXCELL's journey. The dedication and hard work of everyone have built the EXCELL we see today. These smiles are our most valuable asset.

We believe in the power of unity, and these joyful moments are the driving force behind our journey forward.

Our scale business is substantial and production volume is growing rapidly year on year due to our product reliability, quality and competitive pricing. We manufacture products for a wide range of weighing applications including Retail, Industrial and Laboratory market sectors.

EXCELL PRECISION is one of the fastest growing manufacturers of high quality, precision digital electronic scales.
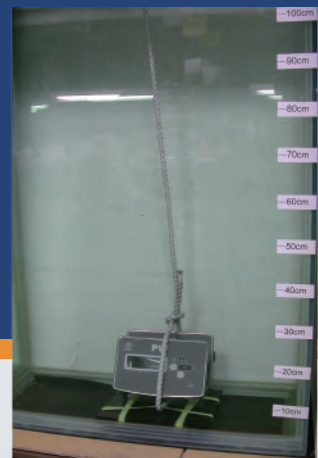
2004

Factory Production Line Operation Status

LITHIUM POWERED SERIES

FEATURES

- Up to 1/15,000 display resolution. High Speed 24bits AD
- Auto zero tracking and pre-tare
- Simple counting ; Gross/Net indication ; Hold function
- Weight and quantity over-limit warning
- Built-in power saving function to extend usage time
- 5 brightness setting selectable for LCD backlight

AXW

Capacity	3 / 7.5 / 15 / 30 Kg
Division	0.2 / 0.5 / 1 / 2 g
Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Platter Size	290 x 230mm (W x D)
Dimensions	297 x 106 x 345mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FXW

Capacity	3 / 3 / 6 / 7.5 / 12 / 15 / 30 / 30 Kg
Division	0.2 / 0.5 / 1 / 0.5 / 2 / 1 / 2 / 5 g
Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Platter Size	300 x 225mm (W x D)
Dimensions	300 x 110 x 330mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi

NXW

Capacity	3 / 7.5 / 15 / 30 Kg
Division	0.2 / 0.5 / 1 / 2 g
Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Platter Size	290 x 230mm (W x D)
Dimensions	297 x 106 x 345mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FEATURES

- Up to 1/15,000 display resolution. High Speed 24bits AD
- Auto zero tracking and pre-tare
- Simple counting; Gross/Net indication; Hold function

- Weight and quantity over-limit warning
- Built-in power saving function to extend usage time
- 5 brightness setting selectable for LCD backlight

SXW

Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Dimensions	276 x 170 x 136mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

TXW

Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

FEATURES

- High speed 24bits AD; Display reading speed faster
- Faster weighing stability
- Faster zero return

- Zero key and Tare key reactfaster
- Vendor and customer sides LCD displays with LED backlight

AXC

- 1/3,000, 1/6,000 display resolution

Capacity	3 / 15 / 30 Kg
Division	0.2 / 1 / 2 g
Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	275 x 105 x 310mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FXC

- Up to 1/15,000 display resolution
- Low power and charging status indication

Capacity	3 / 6 / 7.5 / 15 / 30 Kg
Division	0.2 / 1 / 0.5 / 1 / 2 g
Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 18mm (Height) LED backlight
Dimensions	300 × 110 × 330mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi

SXC

- Enclosed with indicator dust cover, rechargeable battery and power cord
- Easy to set any specification and up to1/15,000 display resolution
- 15 levels sampling speed available
- Weight and quantity accumulation available
- Tare and pre-tare functions

Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	256 x 170 x 90mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

TXC

- Up to 1/15,000 display resolution
- High speed 24bits AD; Display reading speed faster
- Auto calibration function
- Weight and quantity over-limit warning
- Low power and charging status indication

Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

IP68 IP69 WATERPROOF

FEATURES

- High-Quality Food-Grade Stainless Steel 304 Material, the Top Choice for Agricultural, Livestock, and Seafood Processing

- Futuristic Streamlined Design, Lightweight and Portable. Integrated Bottom Design for Easy Cleaning

- Powered by Lithium Battery 18650, Aligning with Environmental and Social Trends

- Exclusive Energy-Saving Patent, Maximizing Performance with Single-cell Lithium 18650 Type

- Exclusive Power Protection Device, Eliminating Concerns of Overcharging & Overdischarging Risks

- Plastic Materials with UL 94 VO Flammability Rating Standard Ensuring User Safety

- Waterproof mechanical switch keys

SUB

IP68 / IP69 Waterproof

304 Stainless

Capacity	3 / 3 / 6 / 6 / 15 / 15 Kg
Division	0.5 / 1 / 1 / 2 / 2 / 5 g
Power	AC 100V ~ 240V (±10%) 3.7V 3200mA (18650 Lithium Ion battery)
Display	**SUB :** LCD 6 digits ; 25mm (Height) **SUBe :** LED 6 digits ; 21mm (Height)
Platter Size	195 x 170mm (W x D)
Dimensions	196 x 100 x 275 mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	Platter 235 x 200 (W x D)

SUB Aircharge

IP68 / IP69 Waterproof

304 Stainless

- Wireless charging safer and longer life than DC Jack

Capacity	3 / 3 / 6 / 6 / 15 / 15 Kg
Division	0.5 / 1 / 1 / 2 / 2 / 5 g
Power	12V / 1.5A (15W) output QI TX module + 3.7V 3200mA (18650 Lithium Ion battery)
Display	**SUB :** LCD 6 digits ; 25mm (Height) **SUBe :** LED 6 digits ; 21mm (Height)
Platter Size	195 x 170mm (W x D)
Dimensions	196 x 100 x 275 mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	Platter 235 x 200 (W x D)

FEATURES

Advanced ARM-Based 32-Bit MCU with Precision 24-Bit ADC

Designed for low-power applications, this microcontroller unit (MCU) and a high-precision 24-bit analog-to-digital converter (ADC), ensuring efficient, responsive, and accurate performance tailored for demanding weighing environments.

IP68 & IP69 Dust & Waterproof Testing

Rigorously tested to meet IP68 and IP69 standards, the Marin series delivers exceptional dust and water protection, making it ideal for demanding environments such as agriculture and seafood processing.

Advanced Smart Power Management System (Patented)

Dynamically adjusts power consumption based on user habits, enhancing energy efficiency while maintaining a smooth and uninterrupted user experience.

Multiple Power Options

Marin offers versatility with three battery types— lithium, dry cell, and lead-acid. The dry battery model can also include of an AC adapter for plugged-in use.

21700 Lithium-Ion Battery Pack

AirCharge utilizes high-cycle 21700 lithium-ion batteries from world-renowned manufacturers, offering extended lifespan, enhanced reliability, and peace of mind for users.

Specially Designed Power Circuit

Features overcharge, over-discharge, and auto shut-off protection mechanisms, improving battery longevity and ensuring overall system reliability.

Seamless Data Transfer

Marin solves transmission issues in waterproof scales with stable Wi-Fi or Bluetooth wireless data transfer.

Ergonomic and Durable Design

Marin features an ABS housing and a food-grade stainless steel 304 weighing pan, ensuring durability and ease of handling with side-grooved handles. Additionally, its mechanical keypad design offers enhanced durability and excellent water resistance, making it highly reliable even in humid conditions.

Superior Electromagnetic and Electrostatic Interference Resistance

Engineered to resist electromagnetic and electrostatic disturbances, ensuring consistent and stable performance.
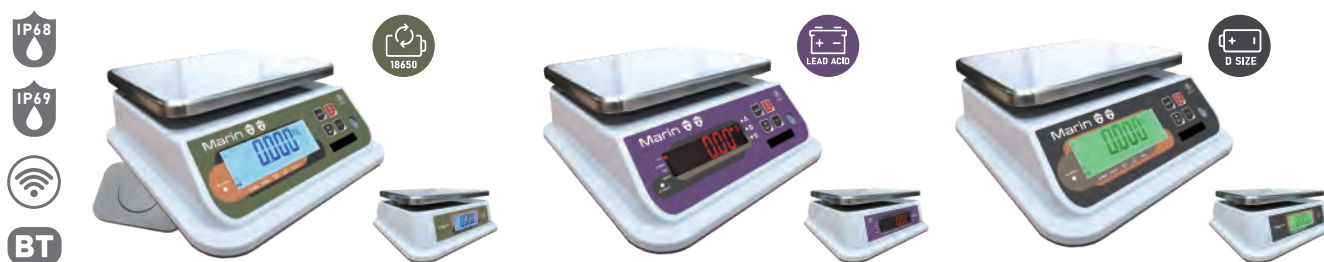
Clear and Adjustable Display Brightness

It includes multi-stage backlight or LED light brightness adjustment, offering four selectable brightness levels to ensure clear visibility under any lighting conditions.

Dual Display Options

Marin features front and rear display for both LCD and LED.

Marin LCD / Marin LED   IP68 / IP69 Waterproof

Capacity	3 / 3 / 6 / 6 / 15 / 15 / 30 / 30 kg		
Division	0.5 / 1 / 1 / 2 / 2 / 5 / 5 / 10 g		
Battery	Li-ion rechargeable battery pack DC 3.7V 5300mA (21700)	Lead-acid rechargeable battery DC6V / 4Ah	D size batteries (not included) 4 x 1.5V Alkaline batteries or 4 x 1.2V NiCd/NiMH batteries (remove batteries to charge)
Power	AC 100V ~ 240V (±10%) adapter + 12V / 1.5A (15W) output QI TX module	AC 100V ~ 240V (±10%) adapter with 12V / 1A output	
Display	Marin : 6 digits/ 25mm (height) White LED backlight Marin LED : 6 digits/ 21mm (height) Red LED display		6 digits/ 25mm (height) Green LED backlight
Platter Size	235 x 200mm (W x D)		
Dimensions	270 x 124 x 310mm (W x H x D)		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		
Option	• Bluetooth or Wi-Fi	• Rear display : Marin 21mm (height) Marin LED: 21mm (height)	

FEATURES

- Advanced ARM-Based 32-Bit MCU with Precision 24-Bit ADC
- IP68 Dust & Waterproof Certification
- Advanced Smart Power Management System(Patented)
- Multiple Power Options
- Standard 18650 Lithium-Ion Battery

- Specially Designed Power Circuit
- Ergonomic and Durable Design
- Superior Electromagnetic and Electrostatic Interference Resistance
- Clear and Adjustable Display
- High Precision and Fast Sampling

NEO ELW / NEO ESW / NEO ESW-E   IP68 Waterproof

NEO ELW AirCharge

NEO ELW

NEO ELW (Dry Battery)

NEO ESW AirCharge

NEO ESW-E AirCharge

NEO ESW

NEO ESW-E

NEO ESW (Dry Battery)

Capacity	3 / 3 / 6 / 6 / 15 / 15 / 30 / 30 kg		
Division	0.5 / 1 / 1 / 2 / 2 / 5 / 5 / 10 g		
Battery	Li-ion rechargeable battery pack DC 3.7V 6100mA (18650-2P)	Lead-acid rechargeable battery DC6V / 4Ah	D size batteries (not included) 4 x 1.5V Alkaline batteries or 4 x 1.2V NiCd/NiMH batteries (remove batteries to charge)
Power	AC 100V ~ 240V (±10%) adapter + 12V / 1.5A (15W) output QI TX module	AC 100V ~ 240V (±10%) adapter with 12V / 1A output	
Display	**NEO ELW / ESW LCD :** 6 digits/ 25mm (height) White LED backlight **NEO ESW-E LED :** 6 digits/ 21mm (height) Red LED display		6 digits/ 25mm (height) Green LED backlight
Platter Size	235 x 200mm (W x D)		
Dimensions (W x H x D)	**NEO ELW :** 270 x 124 x 310mm **NEO ESW :** 240 x 120 x 280mm		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		

FEATURES

- IP68 certified by SGS
- EU-TYPE EXAMINATION CERTIFICATE : Number T10896
- 1/3,000 to 1/6,000 display resolution available
- Sealed waterproof silica gel strip blocks water from infiltrating into the scale

- Stainless steel made for anti-rust
- Concave handle for easy carrying
- **Approval Model :**
1/3,000 display resolution, single range or multi-range

ELW Plus / ESW Plus

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	AC 100V ~ 240V (±10%) adapter + DC 6V / 4Ah rechargeable battery
Display	6 digits ; 25mm (Height) White LED backlight (LCD Display)
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW+ :** 270 x 124 x 310mm **ESW+ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

ELW-E Plus / ESW-E Plus

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	AC 100V ~ 240V (±10%) adapter + DC 6V / 4Ah rechargeable battery
Display	6 digits ; 15mm (Height) LED Display
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW-E+ :** 270 x 124 x 310mm **ESW-E+ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

ELW Plus / ESW Plus AirCharge

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	12V / 1.5A (15W) output QI TX module + 3.7V 6100mA (18650 dual battery)
Display	6 digits ; 25mm (Height) White LED backlight (LCD Display)
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW+ :** 270 x 124 x 310mm **ESW+ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

ELW-E Plus / ESW-E Plus AirCharge

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	12V / 1.5A (15W) output QI TX module + 3.7V 6100mA (18650 dual battery)
Display	6 digits ; 15mm (Height) LED Display
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW-E+ :** 270 x 124 x 310mm **ESW-E+ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

FEATURES

- IP68 certified by SGS
- EU-TYPE EXAMINATION CERTIFICATE : Number T10896
- 1/3,000 to 1/6,000 display resolution available
- Battery-powered and energy-efficient with up to 500 hours of operation

- Sealed waterproof silica gel strip blocks water from infiltrating into the scale
- Concave handle for easy carrying
- **Approval Model :**
1/3,000 display resolution, single range or multi-range

ELW / ESW Dry   Dry Battery-powered

IP68

D SIZE

OIML

ELW Plus
ABS Plastic

ESW Plus
304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	4 x D size dry batteries (alkaline) (not included)
Display	6 digits ; 25mm (Height) Green LED backlight (LCD Display)
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW Dry :** 270 x 124 x 310mm **ESW Dry :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

FEATURES

- SGS Certified Dual IP68 & IP69 Protection Levels
- High-Performance Industrial Control Chip
- SUS 304 Stainless Steel Housing Meet Hygiene Requirements
- Large 55mm LCD Display
- Multi-Functional Indicators: Pre-tare, Gross/Net, Low Power, HOLD, Accumulation
- Multi-Color LED Backlight

- Easy Counting Function
- Variouis Option cards with Dual independent UARTs ; Support MODBUS RTU, MODBUS TCP
- Complies with Latest European Safety Standards
- Waterproof Vent
- Galaxy ABS Plastic Version
- Optional Stainless Steel SS Platform

Queen   IP68 / IP69 Waterproof

304 Stainless

Power	AC 100V ~ 240V (±10%) DC 6V/4Ah rechargeable lead-acid battery
Display	LCD 6 digits ; 55mm (Height) ; Multi-color LED
Dimensions	232 x 150 x 80 mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	1.RS232 Cable 2.Relay card or RS-232/485 card or B/T 4.0 card or Wi-Fi card or RJ45 ethernet card or USB card for data log 3.Foot switch

Galaxy   IP68 / IP69 Waterproof

ABS Plastic

Power	AC 100V ~ 240V (±10%) DC 6V/4Ah rechargeable lead-acid battery
Display	LCD 6 digits ; 55mm (Height) ; Multi-color LED
Dimensions	232 x 150 x 80 mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	1.RS232 Cable 2.Relay card or RS-232/485 card or B/T 4.0 card or Wi-Fi card or RJ45 ethernet card or USB card for data log 3.Foot switch 4.U shape stand

FEATURES

- IP68 waterproof check-weighing indicator with 304 stainless steel housing with built in RS232
- Two adjustable weighing speed : moderate and slow

- Selectable weighing units : Kilogram(kg), gram(g), pound(lb), and ounce(oz)

PH3

- Up to 1/30,000 display resolution
- Analog High/Low/Ok indication
- 20 keys with number keys

Power	AC 100V ~ 240V (±10%) 12V / 1A adaptor
Display	LCD 6 digits ; 25 mm (Height); LED backlight
Dimensions	256 x 170 x 90mm(W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 cable Relay card

PWH3

- Up to 1/15,000 display resolution
- Hold function, Check mode High / Low / OK, Auto average unit weight, Animal scale function

Power	AC 100V ~ 240V (±10%) 12V / 1A adaptor
Display	LCD 6 digits ; 25 mm (Height); LED backlight
Dimensions	256 x 170 x 90mm(W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 cable

P120-S

- IP68 : mist-proof, waterproof and dustproof
- Stand alone batching mode or connect to PLC for external system control
- High performance A/D : 0.12 μ VD input sensitivity, 120(max.) times/sec conversion rate

Power	AC 100V ~ 240V (±10%)
Display	LCD 6 digits ; 16 mm (Height); LED backlight
Dimensions	256 x 170 x 90mm(W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)

GTW / GTW+RJ45

- IP68 : mist-proof, waterproof and dustproof, ABS housing with built-in RS232 terminal
- Up to 1/30,000 display resolution
- High Speed 24bits AD ; Display reading speed faster
- Faster weighing stability
- Zero key and Tare key react faster
- Preset weight or quantity ; Weight accumulation
- Simple counting; Gross/Net indication ; Hold function ; Check mode High / Low / OK
- **GTW+RJ45 :** RJ-45 data-transfer interface

Power	AC 110V / 230V (±10%) + DC 6V/ 4Ah rechargeable battery
Display	LCD 6 digits ; 28 mm (Height); LED backlight
Dimensions	238 x 156 x 90mm(W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 cable U shape stand Relay card or Wi-Fi or Bluetooth or RJ45

GW / QW

GW ABS Plastic **QW 304 Stainless**

- IP68 : mist-proof, waterproof and dustproof built in RS232
- Up to 1/15,000 display resolution
- Hold function, Check mode High / Low / OK, Auto average unit weight, Animal scale function
- Low power indication and auto power off
- Full range tare, Pre-tare, Auto zero tracking, Sampling counting, Gross/ Net Indication

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 55 mm (Height) ; LED backlight
Dimensions (W x H x D)	**GW** : 238 x 156 x 90mm **QW** : 232 x 150 x 80mm
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable Relay card or Wi-Fi or Bluetooth Foot switch U shape stand for GW

GWS / QWS

GWS ABS Plastic **QWS 304 Stainless**

- IP68 : mist-proof, waterproof and dustproof built in RS232
- Extra-large and wide LCD display 55mm height, with COOL WHITE LED backlight
- Quick access to hold function, weight check High / Low / OK
- Selectable tare range or up to full range tare; Pre-tare

Power	AC 110V / 230V (±10%) + DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 55 mm (Height); Cool White LED backlight
Dimensions (W x H x D)	**GWS** : 238 x 156 x 90mm **QWS** : 232 x 150 x 80mm
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable Relay card or Wi-Fi or Bluetooth Foot switch U shape stand for GWS

GoW / QoW   Wireless Bluetooth

GoW ABS Plastic **QoW 304 Stainless**

- Built-in Bluetooth need to work with wireless platform P.39
- IP68 : mist-proof, waterproof and dustproof built in RS232
- Extra-large and wide LCD display 6 digits with 55mm height
- Low power indication and auto power off
- Hold function, Check mode High / Low / OK, Auto average

Power	AC 110V / 230V (±10%) + DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 55 mm (Height); Cool White LED backlight
Dimensions (W x H x D)	**GoW** : 238 x 156 x 90mm **QoW** : 232 x 150 x 80mm
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable Relay card or Wi-Fi or Bluetooth Foot switch U shape stand for GoW

		Anchor	Marin	SUB	NEO ESW	NEO ELW	ESW Plus	ELW Plus
Upper Housing	304 Stainless	●		●	●		●	
	ABS Plastic		●			●		●
	MAX Capacity (kg)	30	30	15	30	30	30	30
	Platter Size (mm)	235 x 200	235 x 200	Standard 195 x 170 Option 235 x 200	235 x 200	235 x 200	235 x 200	235 x 200
Display	LED, Font height (mm)	21	21	21	21	21	15 OIML	15 OIML
	LCD, Font height (mm)	25	25	25	25	25	25 OIML/NTEP	25 OIML/NTEP
	Dual LED, Font height (mm)	21	21				15 OIML	15 OIML
	Dual LCD, Font height (mm)	Front 25 Rear 21	Front 25 Rear 21					
Key	Mechnical keys	4	4	4				
	Membrane				5	5	5	5
Battery	Lead-acid	6V/4Ah	6V/4Ah		6V/4Ah	6V/4Ah	6V/4Ah OIML/NTEP	6V/4Ah OIML/NTEP
	Lithium			3.7V 3200mAh				
	Lithium (Wireless Charging)	3.7V 5300mAh[1]	3.7V 5300mAh[1]	3.7V 3200mAh	3.7V 6100mAh[1]	3.7V 6100mAh[1]	3.7V 6100mAh[1] OIML/NTEP	3.7V 6100mAh[1] OIML/NTEP
	1.5V Dry	4 x D size[2]	4 x D size[2]		4 x D size[2]	4 x D size[2]	4 x D size[2] OIML	4 x D size[2] OIML
	1.2V NiCd/NiMH	4 x D size[2]	4 x D size[2]		4 x D size[2]	4 x D size[2]		
Certification	IP68	●	●	●	●	●	●	●
	IP69	●	●	●				
Option	BT	●	●					
	or Wi-Fi	●	●					

OIML : european type approve and OIML approve

OIML/NTEP : european type approve and OIML approve and NTEP approve

[1] Patented power management system for lithium battery

[2] Dry and NiCd/NiMH models use green backlight, Others use white backlight

PRICE COMPUTING SCALE

FEATURES

▪ Non-approval Model :

1/3,000 up to 1/6,000 display resolution, weighing modes. Up to 99 data accumulation and 25 data recall.

▪ Approval Model :

1/3,000 display resolution, single range or multi-range.

AM3 / AM4

(AM3)

- 1/3,000 display resolution (Multi-range available)
- Low power and charging status indication
- Faster weighing stability
- Faster zero return Zero key and Tare react fasterDigital calibration

Capacity	3 / 6 / 15 / 30 Kg
Division	1 / 2 / 5 / 10 g
Power	**AM3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	AM4 : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 14mm (Height)
Platter Size	280 x 230mm (W x D)
Dimensions	275 x 105 x 310mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

FD3-P / FDP3-P / FD4-P / FDP4-P

(FD3-P/FDP3-P)

- Vendor side display at front and customer side display
- One display on tower or double displays on tower

Capacity	3 / 6 / 15 / 30 Kg
Division	1 / 2 / 5 / 10 g
Power	**FD3-P/FDP3-P :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	FD4-P/FDP4-P : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 18mm (Height)
Platter Size	300 x 225mm (W x D)
Dimensions (W x H x D)	**FD3-P/FD4-P :** 300 x 110 x 330mm **FDP3-P/FDP4-P :** 300 x 530 x 330mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

GRP3-35

- 35 direct PLU keys
- High Speed 24bits AD
- Faster display Reading Speed
- Faster weighing stability and zero return
- Double displays on tower

Capacity	6 / 15 / 30 Kg
Division	2 / 5 / 10 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 14mm (Height)
Platter Size	318 x 255mm (W x D)
Dimensions	315 x 535 x 353mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

GR3 / GRP3

- LCD display with LED backlight vendor and customer display sides
- Vendor display side and display on tower
- Auto backlight off
- Easily adjustable feet to reach level on tower

Capacity	3 / 6 / 15 / 30 Kg
Division	1 / 2 / 5 / 10 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 14mm (Height)
Platter Size	318 x 255mm (W x D)
Dimensions (W x H x D)	**GR3 :** 315 x 115 x 353mm **GRP3 :** 315 x 535 x 353mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

FEATURES

▪ **Non-approval Model :**

1/3,000 up to 1/6,000 display resolution, weighing modes. Up to 99 data accumulation and 25 data recall.

▪ **Approval Model :**

1/3,000 display resolution, single range or multi-range.

GE3 / GEP3 / GE4 / GEP4

OIML
(GE3/GEP3)

▪ LCD displays with LED backlight
▪ High speed 24bits AD; Display reading speed faster
▪ Faster weighing stability
▪ Faster zero return
▪ Zero key and Tare key react faster

Capacity	3 / 6 / 15 / 30 Kg
Division	1 / 2 / 5 / 10 g
Power	**GE3/GEP3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **GE4/GEP4 :** AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 14mm (Height)
Platter Size	318 x 255mm (W x D)
Dimensions (W x H x D)	**GE3/GE4 :** 315 x 115 x 353mm **GEP3/GEP4 :** 315 x 535 x 353mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

FEATURES

▪ Bright LCD displays with LED backlight

▪ Enclosed with adjustable feet, bubble level, dust cover, rechargeable battery and power cord

▪ Tare function

▪ Low battery and charging status indications

▪ Overload protection design

FD3-P-6PS / FD4-P-6PS

OIML
(FD3-P-6PS)

▪ 6 direct preset memory keys
▪ Special power switch design to prevent moisture getting inside the scale

Capacity	3 / 6 / 15 / 30 Kg
Division	1 / 2 / 5 / 10 g
Power	**FD3-P-6PS :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **FD4-P-6PS :** AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 5 / 5 / 6 ; 18mm (Height)
Platter Size	300 x 225mm (W x D)
Dimensions	345 x 106 x 297mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

SA3-P / SAP3 / PA2

OIML

Capacity	3 / 6 / 15 / 30 Kg
Division	1 / 2 / 5 / 10 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 5 / 5 / 6 ; 18mm (Height)
Platter Size	290 x 220mm (W x D)
Dimensions	345 x 106 x 297mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

FEATURES

- 35 direct preset memory keys
- Up to 99 data accumulation and 99 data recall
- High speed 24bits AD; Display reading speed faster

- 1/3,000 display resolution
  1/6,000 display resolution (multi-range)
- IP degree wash down design IP Grade IPX6

JBLP3-35

Capacity	6 / 15 / 30 / 60 Kg
Division	2 / 5 / 10 / 20 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 14mm (Height)
Platter Size	334 x 254mm (W x D)
Dimensions	334 x 535 x 353mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

TBLP3-35

Capacity	6 / 15 / 30 / 60 Kg
Division	2 / 5 / 10 / 20 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 5 / 5 / 6 ; 14mm (Height)
Platter Size	400 x 300mm (W x D)
Dimensions	400 x 510 x 399mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232

FB510

- 1/3,000 display resolution available
- 9 preset unit price
- Built-in mini printer (date and time available)

Ribbon Cassette : Approx. 7 x 103 lines
(25°C continuous printing)
Print Speed : 1.0 lps ± 20% [lps : lins per second]
Printer Head Reliability : MCBF 10x105 lines

Power	AC 110V / 220V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 5 / 6 ; 25mm (Height)
Dimensions (W x H x D)	276 x 172 x 153mm (L x W x H) 276 x 202 x 153mm (L x W x H) (Including double-sided display)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Options	Double-sided display Mounting bracket RS-232

AP3 / AP4

(AP3)

- High speed 24bits AD ; Display reading speed faster
- Faster weighing stability
- Faster zero return

Non-approval Model :
1/3,000 up to 1/6,000 display resolution, weighing modes
Up to 99 data accumulation and 25 data recall

Approval Model :
1/3,000 display resolution, single range or multi-range

Power	**AP3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **AP4 :** AC100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 14mm (Height)
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Options	Second display RS232 for PC or serial printer output

SB3-P / PQ2

- Enclosed with indicator dust cover,rechargeable battery and power cord
- Tare function
- Money return calculation of a trade balance
- Up to 99 data accumulation and 25 recalls
- Low battery and charging status indications
- OIML approval model available with 1/3,000 display resolution

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 14mm (Height)
Dimensions	176 x 156 x 164mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Options	RS232 for PC or serial printer output

FEATURES

- High speed 24bits AD; Display reading speed faster
- Up to 99 data accumulation and 25 data recall
- Zero key and Tare key react faster

- Mini printer built-in for KFB510
- OIML approved models available for 1/3,000 display resolution

KFB510 / JFB510

Capacity	6 / 15 / 30 / 60 Kg
Division	2 / 5 / 10 / 20 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 5 / 6 ; 25mm (Height)
Platter Size	**KFB510 :** 322 x 242mm (IPX6) **JFB510 :** 334 x 254mm (IPX5)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

KAP3 / JAP3 / KAP4 /JAP4

(KAP3/JAP3)

Capacity	6 / 15 / 30 / 60 Kg
Division	2 / 5 / 10 / 20 g
Power	**AP3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **AP4 :** AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 ; 25mm (Height)
Platter Size	**KAP3 :** 322 x 242mm (IPX6) **JAP4 :** 334 x 254mm (IPX5)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	Second Display / RS232

TAP3 / DAP3 / LAP3 / PAP3 / TAP4 / DAP4 / LAP4 / PAP4

Non-approval Model :
1/3,000 up to 1/6,000 display resolution, weighing modes. Up to 99 data accumulation and 25 data recall.

Approval Model :
1/3,000 display resolution, single range or multi-range.

Capacity	30kg *10g (TAP3) 60kg *20g (TAP3 / PAP3 / DAP3 / LAP3) 120kg*50g (TAP3 /PAP3 / DAP3 / LAP3) 150kg*50g (TAP3 / PAP3/ DAP3 / LAP3) 300kg*100g (PAP3 / DAP3 / LAP3) 600kg*200g (LAP3)
Power	**TAP3 / DAP3 / LAP3 / PAP3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **TAP4 / DAP4 / LAP4 / PAP4 :** AC 100 ~ 240V (±10%) or DC 6V / 4Ah rechargeable battery
Display	LCD 6 /6/ 6 ; 14 mm (Height)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	Second Display / RS232

Platter Size | TAP3: 300 x 400mm | LAP3: 460 x 600mm
DAP3: 420 x 520mm | PAP3: 420 x 520mm

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WEIGHING SCALE

FEATURES

- High-Quality Food-Grade Stainless Steel 304 Material, the Top Choice for Agricultural, Livestock, and Seafood Processing

- Futuristic Streamlined Design, Lightweight and Portable. Integrated Bottom Design for Easy Cleaning

- Powered by Lithium Battery 18650, Aligning with Environmental and Social Trends

- Exclusive Energy-Saving Patent, Maximizing Performance with Single-cell Lithium 18650 Type

- Exclusive Power Protection Device, Eliminating Concerns of Overcharging & Overdischarging Risks

- Plastic Materials with UL 94 VO Flammability Rating Standard Ensuring User Safety

- Waterproof mechanical switch keys

SUB
IP68 / IP69 Waterproof

304 Stainless

Capacity	3 / 3 / 6 / 6 / 15 / 15 Kg
Division	0.5 / 1 / 1 / 2 / 2 / 5 g
Power	AC 100V ~ 240V (±10%) 3.7V 3200mA (18650 Lithium Ion battery)
Display	**SUB :** LCD 6 digits ; 25mm (Height) **SUBe :** LED 6 digits ; 21mm (Height)
Platter Size	195 x 170mm (W x D)
Dimensions	196 x 100 x 275 mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	Platter 235 x 200 (W x D)

SUB Aircharge
IP68 / IP69 Waterproof

304 Stainless

- Wireless charging safer and longer life than DC Jack

Capacity	3 / 3 / 6 / 6 / 15 / 15 Kg
Division	0.5 / 1 / 1 / 2 / 2 / 5 g
Power	12V / 1.5A (15W) output QI TX module + 3.7V 3200mA (18650 Lithium Ion battery)
Display	**SUB :** LCD 6 digits ; 25mm (Height) **SUBe :** LED 6 digits ; 21mm (Height)
Platter Size	195 x 170mm (W x D)
Dimensions	196 x 100 x 275 mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	Platter 235 x 200 (W x D)

FEATURES

Advanced ARM-Based 32-Bit MCU with Precision 24-Bit ADC

Designed for low-power applications, this microcontroller unit (MCU) and a high-precision 24-bit analog-to-digital converter (ADC), ensuring efficient, responsive, and accurate performance tailored for demanding weighing environments.

IP68 & IP69 Dust & Waterproof Testing

Rigorously tested to meet IP68 and IP69 standards, the Marin series delivers exceptional dust and water protection, making it ideal for demanding environments such as agriculture and seafood processing.

Advanced Smart Power Management System (Patented)

Dynamically adjusts power consumption based on user habits, enhancing energy efficiency while maintaining a smooth and uninterrupted user experience.

Multiple Power Options

Marin offers versatility with three battery types— lithium, dry cell, and lead-acid. The dry battery model can also include of an AC adapter for plugged-in use.

21700 Lithium-Ion Battery Pack

AirCharge utilizes high-cycle 21700 lithium-ion batteries from world-renowned manufacturers, offering extended lifespan, enhanced reliability, and peace of mind for users.

Specially Designed Power Circuit

Features overcharge, over-discharge, and auto shut-off protection mechanisms, improving battery longevity and ensuring overall system reliability.

Seamless Data Transfer

Marin solves transmission issues in waterproof scales with stable Wi-Fi or Bluetooth wireless data transfer.

Ergonomic and Durable Design

Marin features an ABS housing and a food-grade stainless steel 304 weighing pan, ensuring durability and ease of handling with side-grooved handles. Additionally, its mechanical keypad design offers enhanced durability and excellent water resistance, making it highly reliable even in humid conditions.

Superior Electromagnetic and Electrostatic Interference Resistance

Engineered to resist electromagnetic and electrostatic disturbances, ensuring consistent and stable performance.
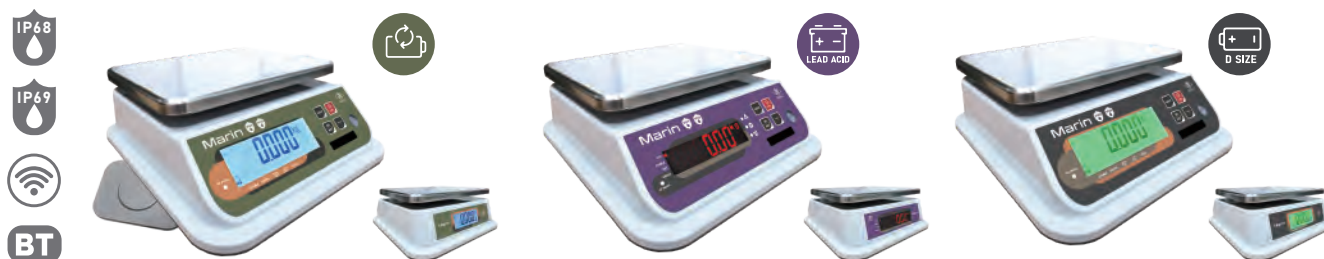
Clear and Adjustable Display Brightness

It includes multi-stage backlight or LED light brightness adjustment, offering four selectable brightness levels to ensure clear visibility under any lighting conditions.

Dual Display Options

Marin features front and rear display for both LCD and LED.

Marin LCD / Marin LED   IP68 / IP69 Waterproof

Capacity	3 / 3 / 6 / 6 / 15 / 15 / 30 / 30 kg		
Division	0.5 / 1 / 1 / 2 / 2 / 5 / 5 / 10 g		
Battery	Li-ion rechargeable battery pack DC 3.7V 5300mA (21700)	Lead-acid rechargeable battery DC6V / 4Ah	D size batteries (not included) 4 x 1.5V Alkaline batteries or 4 x 1.2V NiCd/NiMH batteries (remove batteries to charge)
Power	AC 100V ~ 240V (±10%) adapter + 12V / 1.5A (15W) output QI TX module	AC 100V ~ 240V (±10%) adapter with 12V / 1A output	
Display	**Marin :** 6 digits/ 25mm (height) White LED backlight **Marin LED :** 6 digits/ 21mm (height) Red LED display		6 digits/ 25mm (height) Green LED backlight
Platter Size	235 x 200mm (W x D)		
Dimensions	270 x 124 x 310mm (W x H x D)		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		
Option	• Bluetooth or Wi-Fi	• Rear display : Marin 21mm (height) Marin LED: 21mm (height)	

FEATURES

- Advanced ARM-Based 32-Bit MCU with Precision 24-Bit ADC
- IP68 Dust & Waterproof Certification
- Advanced Smart Power Management System(Patented)
- Multiple Power Options
- Standard 18650 Lithium-Ion Battery

- Specially Designed Power Circuit
- Ergonomic and Durable Design
- Superior Electromagnetic and Electrostatic Interference Resistance
- Clear and Adjustable Display
- High Precision and Fast Sampling

NEO ELW / NEO ESW / NEO ESW-E · IP68 Waterproof

NEO ELW AirCharge

NEO ELW

NEO ELW (Dry Battery)

NEO ESW AirCharge

NEO ESW-E AirCharge

NEO ESW

NEO ESW-E

NEO ESW (Dry Battery)

Capacity	3 / 3 / 6 / 6 / 15 / 15 / 30 / 30 kg		
Division	0.5 / 1 / 1 / 2 / 2 / 5 / 5 / 10 g		
Battery	Li-ion rechargeable battery pack DC 3.7V 6100mA (18650-2P)	Lead-acid rechargeable battery DC6V / 4Ah	D size batteries (not included) 4 x 1.5V Alkaline batteries or 4 x 1.2V NiCd/NiMH batteries (remove batteries to charge)
Power	AC 100V ~ 240V (±10%) adapter + 12V / 1.5A (15W) output QI TX module	AC 100V ~ 240V (±10%) adapter with 12V / 1A output	
Display	**NEO ELW / ESW LCD :** 6 digits/ 25mm (height) White LED backlight **NEO ESW-E LED :** 6 digits/ 21mm (height) Red LED display		6 digits/ 25mm (height) Green LED backlight
Platter Size	235 x 200mm (W x D)		
Dimensions (W x H x D)	**NEO ELW :** 270 x 124 x 310mm **NEO ESW :** 240 x 120 x 280mm		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		

FEATURES

- IP68 certified by SGS
- EU-TYPE EXAMINATION CERTIFICATE : Number T10896
- 1/3,000 to 1/6,000 display resolution available
- Sealed waterproof silica gel strip blocks water from infiltrating into the scale

- Stainless steel made for anti-rust
- Concave handle for easy carrying
- **Approval Model :**
1/3,000 display resolution, single range or multi-range

ELW Plus / ESW Plus

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	AC 100V ~ 240V (±10%) adapter + DC 6V / 4Ah rechargeable battery
Display	6 digits ; 25mm (Height) White LED backlight (LCD Display)
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW⁺ :** 270 x 124 x 310mm **ESW⁺ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

ELW-E Plus / ESW-E Plus

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	AC 100V ~ 240V (±10%) adapter + DC 6V / 4Ah rechargeable battery
Display	6 digits ; 15mm (Height) LED Display
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW-E⁺ :** 270 x 124 x 310mm **ESW-E⁺ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

ELW Plus / ESW Plus AirCharge

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	12V / 1.5A (15W) output QI TX module + 3.7V 6100mA (18650 dual battery)
Display	6 digits ; 25mm (Height) White LED backlight (LCD Display)
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW⁺ :** 270 x 124 x 310mm **ESW⁺ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

ELW-E Plus / ESW-E Plus AirCharge

ELW Plus ABS Plastic

ESW Plus 304 Stainless

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	12V / 1.5A (15W) output QI TX module + 3.7V 6100mA (18650 dual battery)
Display	6 digits ; 15mm (Height) LED Display
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW-E⁺ :** 270 x 124 x 310mm **ESW-E⁺ :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

FEATURES

- IP68 certified by SGS
- EU-TYPE EXAMINATION CERTIFICATE : Number T10896
- 1/3,000 to 1/6,000 display resolution available
- Battery-powered and energy-efficient with up to 500 hours of operation

- Sealed waterproof silica gel strip blocks water from infiltrating into the scale
- Concave handle for easy carrying
- **Approval Model :**

1/3,000 display resolution, single range or multi-range

ELW / ESW Dry
Dry Battery-powered

**ELW Plus
ABS Plastic**

**ESW Plus
304 Stainless**

Capacity	3 / 6 / 15 / 30 Kg
Division	0.5 / 1 / 5 / 5 g
Power	4 x D size dry batteries (alkaline) (not included)
Display	6 digits ; 25mm (Height) Green LED backlight (LCD Display)
Platter Size	235 x 200mm (W x D)
Dimensions (W x H x D)	**ELW Dry :** 270 x 124 x 310mm **ESW Dry :** 240 x 120 x 280mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

FEATURES

- Up to 1/15,000 display resolution. High Speed 24bits AD
- Auto zero tracking and pre-tare
- Simple counting ; Gross/Net indication ; Hold function

- Weight and quantity over-limit warning
- Built-in power saving function to extend usage time
- 5 brightness setting selectable for LCD backlight

AXW

Capacity	3 / 7.5 / 15 / 30 Kg
Division	0.2 / 0.5 / 1 / 2 g
Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Platter Size	290 x 230mm (W x D)
Dimensions	297 x 106 x 345mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FXW

Capacity	3 / 3 / 6 / 7.5 / 12 / 15 / 30 / 30 Kg
Division	0.2 / 0.5 / 1 / 0.5 / 2 / 1 / 2 / 5 g
Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Platter Size	300 x 225mm (W x D)
Dimensions	300 x 110 x 330mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi

NXW

Capacity	3 / 7.5 / 15 / 30 Kg
Division	0.2 / 0.5 / 1 / 2 g
Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Platter Size	290 x 230mm (W x D)
Dimensions	297 x 106 x 345mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FEATURES

- Faster weighing stability
- Faster zero return
- Zero key and Tare key react faster
- Option RS232 interface
- High-speed 24-bit AD for faster display reading
- Preset weight or quantity ; Weight accumulation

- Simple counting ; Gross/Net indication ; Hold function ; Check mode Lo / Hi / OK
- **Non-approval Model :**
1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- **Approval Model :**
1/3,000 display resolution, single range or multi-range

AWH3 / AWH4

OIML
(AWH3)

- Compact size

Operating Temperature :
Non-approval model : 0°C ~ 40°C (32°F ~ 104°F)
Approval model : -10°C ~ 40°C (14°F ~ 104°F)

Capacity	3 / 3 / 6 / 7.5 / 15 / 15 / 30 / 30 Kg
Division	0.1 / 0.2 / 0.2 / 0.5 / 0.5 / 1 / 1 / 2 g
Power	**AWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **AWH4 :** AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28mm (Height) LED back-light
Platter Size	280 x 230mm (W x D)
Dimensions	275 x 105 x 310mm (W x H x D)
Option	RS232 / Wi-Fi / Bluetooth

FDH3-W / FDH4-W

OIML
(FDH3-W)

- Up to 1/30,000 display resolution

Operating Temperature :
Non-approval model : 0°C ~ 40°C (32°F ~ 104°F)
Approval model : -10°C ~ 40°C (14°F ~ 104°F)

Capacity	3 / 3 / 6 / 7.5 / 12 / 15 / 30 / 30 Kg
Division	0.2 / 0.5 / 1 / 0.5 / 2 / 1 / 2 / 5 g
Power	**FDH3-W :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **FDH4-W :** AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28mm (Height) LED back-light
Platter Size	300 x 225mm (W x D)
Dimensions	300 x 110 x 330mm (W x H x D)
Option	RS232 / Wi-Fi

SAH3-W / SAH4-W / WA2

OIML
(SAH3-W/WA2)

Operating Temperature :
Non-approval model : 0°C ~ 40°C (32°F ~ 104°F)
Approval model : -10°C ~ 40°C (14°F ~ 104°F)

Capacity	1.5 / 3 / 6 / 7.5 / 15 / 30 Kg
Division	0.1 / 0.2 / 0.2 / 0.5 / 1 / 2 g
Power	**SAH3-W :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **SAH4-W :** AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28mm (Height) LED back-light
Platter Size	280 x 230mm (W x D)
Dimensions	297 x 106 x 345mm (W x H x D)
Option	RS232 / Wi-Fi / Bluetooth

FEATURES

- Large LCD display with LED backlight
- Kilogram (kg), gram (g), pound (lb) and ounce (oz) weighing modes

- Full range tare; Auto-zero tracking; Adjustable gravity value

SI-130

- Up to 1/5,000 display resolution

Standard Plastic Platter

Option Stainless Platter

Capacity	2.5 / 5 / 10 / 15 Kg
Division	0.5 / 1 / 2 / 5 g
Power	Adaptor DC 12V or 4 x UM-2 1.5V dry battery (not included)
Display	LCD 5 1/2 digits ; 18mm (Height) ; LED backlight (Optional)
Platter Size	196 x 174mm (Plastic platter) 198 x 176mm (Steel platter)
Dimensions	213 x 80.4 x 284mm (W × H × D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)

SI-132

- Up to 1/30,000 display resolution
- Digital calibration
- Low power indication and auto power off

Capacity	1.5 / 3 / 6 / 15 Kg
Division	0.05 / 0.1 / 0.2 / 0.5 g
Power	Adaptor DC 12V or 4 x UM-2 1.5V dry battery (not included)
Display	LCD 6 digits ; 18mm (Height) ; LED backlight
Platter Size	196 x 174mm (Plastic platter) 198 x 176mm (Steel platter)
Dimensions	213 x 81.2 x 284mm (W × H × D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232

TAW

- AC / DC compatible: Power cord or batteries supported
- Various Functions: Fast and accurate weighing, simple counting, High / Low / OK weight check, full-range tare
- Other considerate designs: Large LCD screen with backlight, auto power off, auto calibration, low battery alarm, dual overload protections, and light weight

Capacity	3 / 7.5 / 15 Kg
Division	0.2 / 0.5 / 1 g
Power	AC 110V / 220V (±10%) + DC 6V / 10Ah rechargeable battery
Platter Size	232 x 184mm
Dimensions	230 x 98 x 260mm (W × H × D)

KPS

- Up to 1/5,000 display resolution
- Auto calibration
- Units: g / ozt / dwt / lb / oz
- Full range tare; Auto zero tracking
- Low power indication and auto power off

Capacity	0.5 / 1 / 2 Kg
Division	0.1 / 0.2 / 0.5 g
Power	Adaptor DC 9V or 9V 100mA dry battery x 1(not included)
Display	LCD 5 digits
Platter Size	135 x 135mm
Dimensions	138 x 45 x 190mm (W × H × D)

FEATURES

- 1/30,000 and 1/60,000 display resolutions available
- Digital calibration
- LCD display with LED backlight, more durable, more energy saving

- Auto zero tracking, double overload protection
- Weighing, counting and percentage modes
- Adjustable gravity value
- Selectable default weighing
- Built-in RS232

BH3
Precision Balance

Capacity	150 / 300 / 600 g (Round) 1200 / 3000 g (Square)
Division	0.005 / 0.01 / 0.02 g (Round) 0.02 / 0.05 g (Square)
Power	Adaptor DC 12V or 4 x UM-2 1.5V dry battery (not included)
Display	LCD 6 1/2 digits ; 16mm (Height) ; LED backlight
Platter Size	Round : Ø116mm Square : 114 x 124 x 6.5mm (1200 / 3000g)
Dimensions	175 x 56 x 226mm (W × H × D)
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Option	RTC

Both IP68 & IP69 Ratings

THE NEXT GENERATION IN WATERPROOF WEIGHING TECHNOLOGY

Conquer Extreme Environments
Achieve Unmatched Weighing Precision

| High-temp Water Jet Resistant | 100 Bar Water Jet Resistant | Multi-color Backlight | 55mm large-font LCD | Latest Industrial Control Chip | Stainless Steel SUS 304 | Waterproof Mechanical Switch |
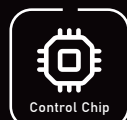
FEATURES

SGS Certified Dual Protection Levels
The only one on the market, leading the industry and providing exceptional water and dust resistance. Featuring waterproof mechanical keys & cable glands.

High-Performance Industrial Control Chip
Provide superior performance and connectivity.

Meet Hygiene Requirements
Use food-Grade 304 Stainless Steel Housing and hex screws ideal for food processsing.

Large LCD Display
55mm high characters, no/auto/always-on backlight modes with four adjustable brightness levels ensuring easy readability in various environments.

Multi-Color LED Backlight
Five backlight colors - red, green, yellow, orange, and white - are available to choose to indicate High / Low / OK statuses.

Multi-Functional Indicators
Includes pre-tare, auto average unit weight, gross/net weight indicators, low power indicator, and auto power-off function for convenient operation.

Easy Counting Function
Convenient to operate, ensuring fast and efficient counting.

Variouis Option cards with Dual independent UARTs
Meet different needs, expand functionality, enhance product flexibility and better support various professional applications inculding MODBUS RTU, MODBUS TCP.

Complies with Latest European Safety Standards
EU safety and EMC standards EN 61010-1:2010/A1:2019 and EN IEC 61326-1:2021 for industrial environments, ensuring safety and reliability.

Waterproof Vent
Prevent pressure build up inside Housing.

Galaxy ABS Plastic Version
Available in an ABS plastic body version to meet different market demands.

Optional Stainless Steel SS Platform
Made with 304 stainless steel with IP67 stainless steel L/C to to enhance durability. Platform size 40 x 50mm with capacity of 150/300KG.

SPECIFICATIONS

System	Processor	32 bit CPU with IEC60730 functional safety compliance for temperature range of -40°C to +105°C
	ADC	24-bit ADC with ultra-low-noise amplifier
Display	LCD	6-digit LCD display with 55mm high characters
	Backlight	Multi-color LED, default in White or can select Red, Yellow, Orange or Green
	Brightness	4-level adjustment at 25%, 50%, 75%, 100%
Mechanical Design	Body	SUS 304 Housing
	Key	Mechanical key
	Connector	PA66 plastic, compliant with UL 94V-2 rating / Optional upgrade to SUS304 material
	Screw	SUS 304 Hex head screw
	Mounting	SUS 304 U shaped stand for Queen / ABS pole holder for Galaxy
I/O ports	L/C RS-232 Pressure relief valve Power line	Options: 1.RS232 Cable 2.RELAY card or RS-232/485 card or B/T 4.0 card or Wi-Fi card or RJ45 ethernet card or USB card for data log 3.Foot switch 4.U shape stand (Galaxy)
Power	Built-in Switching power	AC 100V ~ 240V
	Battery	DC 6V/4Ah rechargeable lead-acid battery
Certificate	EMC & Safety	FCC, EMC, LVD, NTEP
Environment	Dust & Water Proof	Both IP68 & IP69
	Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
	Humidity	20% ~ 85% RH non-condensing
Dimensions	W x H x D	232 x 150 x 80mm

FEATURES

- IP68 waterproof check-weighing indicator with 304 stainless steel housing with built in RS232
- Two adjustable weighing speed : moderate and slow

- Selectable weighing units : Kilogram(kg), gram(g), pound(lb), and ounce(oz)

PH3

- Up to 1/30,000 display resolution
- Analog High/Low/Ok indication
- 20 keys with number keys

Power	AC 100V ~ 240V (±10%) 12V / 1A adaptor
Display	LCD 6 digits ; 25 mm (Height); LED backlight
Dimensions	256 x 170 x 90mm(W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 cable Relay card

PWH3

- Up to 1/15,000 display resolution
- Hold function, Check mode High / Low / OK, Auto average unit weight, Animal scale function

Power	AC 100V ~ 240V (±10%) 12V / 1A adaptor
Display	LCD 6 digits ; 25 mm (Height); LED backlight
Dimensions	256 x 170 x 90mm(W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 cable

P120-S

- IP68 : mist-proof, waterproof and dustproof
- Stand alone batching mode or connect to PLC for external system control
- High performance A/D : 0.12 μ VD input sensitivity, 120(max.) times/sec conversion rate

Power	AC 100V ~ 240V (±10%)
Display	LCD 6 digits ; 16 mm (Height); LED backlight
Dimensions	256 x 170 x 90mm(W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)

GTW / GTW+RJ45

- IP68 : mist-proof, waterproof and dustproof, ABS housing with built-in RS232 terminal
- Up to 1/30,000 display resolution
- High Speed 24bits AD ; Display reading speed faster
- Faster weighing stability
- Zero key and Tare key react faster
- Preset weight or quantity ; Weight accumulation
- Simple counting; Gross/Net indication ; Hold function ; Check mode High / Low / OK
- **GTW+RJ45 :** RJ-45 data-transfer interface

Power	AC 110V / 230V (±10%) + DC 6V/ 4Ah rechargeable battery
Display	LCD 6 digits ; 28 mm (Height); LED backlight
Dimensions	238 x 156 x 90mm(W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 cable U shape stand Relay card or Wi-Fi or Bluetooth or RJ45

GW / QW

GW ABS Plastic   **QW 304 Stainless**

- IP68 : mist-proof, waterproof and dustproof built in RS232
- Up to 1/15,000 display resolution
- Hold function, Check mode High / Low / OK, Auto average unit weight, Animal scale function
- Low power indication and auto power off
- Full range tare, Pre-tare, Auto zero tracking, Sampling counting, Gross/ Net Indication

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 55 mm (Height) ; LED backlight
Dimensions (W x H x D)	**GW** : 238 x 156 x 90mm **QW** : 232 x 150 x 80mm
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable Relay card or Wi-Fi or Bluetooth Foot switch U shape stand for GW

GWS / QWS

GWS ABS Plastic   **QWS 304 Stainless**

- IP68 : mist-proof, waterproof and dustproof built in RS232
- Extra-large and wide LCD display 55mm height, with COOL WHITE LED backlight
- Quick access to hold function, weight check High / Low / OK
- Selectable tare range or up to full range tare; Pre-tare

Power	AC 110V / 230V (±10%) + DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 55 mm (Height); Cool White LED backlight
Dimensions (W x H x D)	**GWS** : 238 x 156 x 90mm **QWS** : 232 x 150 x 80mm
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable Relay card or Wi-Fi or Bluetooth Foot switch U shape stand for GWS

GoW / QoW   Wireless Bluetooth

GoW ABS Plastic   **QoW 304 Stainless**

- Built-in Bluetooth need to work with wireless platform P.39
- IP68 : mist-proof, waterproof and dustproof built in RS232
- Extra-large and wide LCD display 6 digits with 55mm height
- Low power indication and auto power off
- Hold function, Check mode High / Low / OK, Auto average

Power	AC 110V / 230V (±10%) + DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 55 mm (Height); Cool White LED backlight
Dimensions (W x H x D)	**GoW** : 238 x 156 x 90mm **QoW** : 232 x 150 x 80mm
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable Relay card or Wi-Fi or Bluetooth Foot switch U shape stand for GoW

FEATURES

- Up to 1/15,000 display resolution. High Speed 24bits AD
- Auto zero tracking and pre-tare
- Simple counting; Gross/Net indication; Hold function
- Weight and quantity over-limit warning
- Built-in power saving function to extend usage time
- 5 brightness setting selectable for LCD backlight

SXW

Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Dimensions	276 x 170 x 136mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

TXW

Power	AC 100V ~ 240V (±10%) adapter + 18650 3.7V Lithium Ion battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

FEATURES

- Simple counting; Gross/Net indication; Hold function; Check mode High / Low / OK
- Pre-tare function

- Kilogram (kg) and pound (lb) weighing modes
- Stable sampling range setting function

HWH3 / HWH4

OIML
(HWH3)

Power	**HWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	HWH4 : AC 100 ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28 mm (Height); LED backlight
Dimensions	260 x 210 x 117mm(W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

RWH3 / RWH4

OIML
(RWH3)

Power	**RWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	RWH4 : AC 100 ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28 mm (Height); LED backlight
Dimensions	260 x 210 x 117mm(W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

FEATURES

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- Kilogram (kg) and pound (lb) weighing modes

TWH3 / TWH4

OIML
(TWH3)

- Pre-tare function
- Stable sampling range setting function
- Temperature compensation available for non-approval model to be more accurate and stabler

Power	**TWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	TWH4 : AC 100 ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28 mm (Height); LED backlight
Dimensions	280 x 220 x 117mm(W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

KWH3 / KWH4

OIML
(KWH3)

- Preset weight or quantity ; weight accumulation
- Simple counting ; Gross/Net indication ; Hold Function ; Check Mode High / Low / OK

Power	**KWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	KWH4 : AC 100 ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28 mm (Height); LED backlight
Dimensions	245 x 195 x 156mm(W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 or Wi-Fi or Bluetooth Relay card

SBH3-W / SBH4-W

OIML
(SBH3-W)

Power	**SBH3-W** : AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	SBH4-W : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28 mm (Height) ; LED backlight
Dimensions	256 x 170 x 90mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 or Wi-Fi or Bluetooth Relay card

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- Checkweighing for High / Low / OK limits with beeper warning
- Quick access for checkweighing settings weight totalization and auto backlight

- Energy-efficient switching power supply adapts to different power source voltages (AC 100V-240V)
- Auto power-off battery protection circuitry

WQ2

OIML

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	Bright LCD display (28mm digits height)
Dimensions	176 x 156 x 164mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 or Wi-Fi or Bluetooth Relay card

- LCD display with bright backlight
- Enclosed with indicator dust cover, rechargeable battery and power cord

- 15 levels sampling speed available
- Easy to set any specification and up to 1/15,000 display resolution

FB530

OIML

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	Bright LCD display (26mm digits height)
Dimensions	176 x 156 x 164mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	Back display

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- Weighing units available in kg, g, lb and viss
- Digital calibration

- Dual range model available: Multi-range or Multi-interval
- Preset weight or quantity; Pre-tare; Weight accumulation; Check mode High / Low / OK

FM / FMR

Power	Adaptor Input 100 ~ 240V AC 50 ~ 60 Hz ; Output 12V / 1000 mA or 5 x AA size dry batteries
Display	LCD 6 digits ; 25.4 x 10 mm (Height) ; LED backlight
Dimensions	225 x 60 x 135mm (including protrusions) 193 x 50 x 95mm (excluding protrusions)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Option	RS232 / 485 (switch by jumper) with RTC Ni-MH Rechargeable battery

- Large LCD (digit height 25.4mm) display with LED backlight
- Kilogram (kg) and pound (lb, not for EC type approval version) weighing units

- Auto zero tracking; Animal scale function; Data accumulation function

MTWH4 / DTWH4 / PTWH4 / LTWH4

Power	**TWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **TWH4 :** AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28mm (Height) LED backlight
Platter Size	**M :** 375 x 520mm ; **D :** 420 x 520mm **P :** 420 x 520mm ; **L :** 460 x 600mm
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **OIML Approval Model (TWH3) :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- Pre-tare function
- Kilogram (kg) and pound (lb) weighing modes
- Stable sampling range setting function
- Temperature compensation available for non-approval model to be more accurate and stabler

LPH3

Power	AC 100 ~ 240V 12V/1A adaptor + 6V / 4Ah rechargeable batter
Display	LCD 6 digits ; 25mm (Height) LED backlight
Platter Size	460 x 600mm
Dimensions	256 x 170 x 90mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable Relay card

- IP68 waterproof check-weighing indicator with 304 stainless steel housing, bulit in RS232
- Two adjustable weighing speed: moderate and slow
- Up to 1/30,000 display resolution

- Analog High/Low/Ok indication
- Selectable weighing units: Kilogram(kg), gram(g), pound(lb), and ounce(oz)

LPWH3

Power	AC 100 ~ 240V 12V/1A adaptor + 6V / 4Ah rechargeable batter
Display	LCD 6 digits ; 25mm (Height) LED backlight
Platter Size	460 x 600mm
Dimensions	256 x 170 x 90mm (W x H x D)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 cable

- IP68 waterproof check-weighing indicator with 304 stainless steel housing, bulit in RS232
- Two adjustable weighing speed: moderate and slow

- Up to 1/15,000 display resolution
- Selectable weighing units: Kilogram(kg), gram(g), pound(lb), and ounce(oz)

FEATURES

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- Simple counting; Gross/Net indication; Hold function; Check mode High / Low / OK
- Pre-tare function
- Kilogram (kg) and pound (lb) weighing modes
- Stable sampling range setting function

MHWH4 / DHWH4 / PHWH4 / LHWH4

Power	**HWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	HWH4 : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28mm (Height) LED backlight
Platter Size	**M :** 375 x 520mm ; **D :** 420 x 520mm **P :** 420 x 520mm ; **L :** 460 x 600mm
Dimensions	280 x 210 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **OIML Approval Model (HWH3):** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

LRWH3 / LRWH4

Power	**LRWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	LRWH4 : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28mm (Height) LED backlight
Platter Size	460 x 600mm
Dimensions	256 x 170 x 90mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **OIML Approval Model (RWH3):** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

LKWH3 / LKWH4

Power	**LKWH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	LKWH4 : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 digits ; 28mm (Height) LED backlight
Platter Size	460 x 600mm
Dimensions	245 x 195 x 156mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **OIML Approval Model (KWH3):** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth Relay card

- Preset weight or quantity; weight accumulation

COUNTING SCALE

FEATURES

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- High speed 24bits AD; Display reading speed faster
- Faster weighing stability
- Faster zero return
- Zero key and Tare key reactfaster
- Easily adjusted leveling feet for stability of the scale
- Option RS232

ALH3 / ALH4

(ALH3)

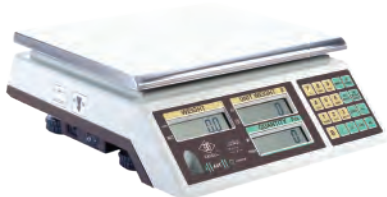|	
Capacity	3 / 3 / 6 / 7.5 / 15 / 15 / 30 / 30 Kg
Division	0.1 / 0.2 / 0.2 / 0.5 / 0.5 / 1 / 1 / 2 g
Power	**ALH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **ALH4 :** AC 100 ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Platter Size	280 x 230mm (W x D)
Dimensions	275 x 105 x 310mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FDH3-C / FDH4-C

(FDH3-C)

Capacity	3 / 3 / 6 / 7.5 / 12 / 15 / 30 / 30 Kg
Division	0.2 / 0.5 / 1 / 0.5 / 2 / 1 / 2 / 5 g
Power	**FDH3-C :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **FDH4-C :** AC 100 ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 18mm (Height) LED backlight
Platter Size	300 x 225mm (W x D)
Dimensions	300 x 110 x 330mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi

ACC3

- 1/6,000 and 1/7,500 display resolution
- 3 LCD displays with LED backlight
- Up to 251 accumulations
- Programmable unit weight of denomination
- Security password setting function
- New coin switch to old coin function for customer selection

Capacity	6 / 15 / 30 Kg
Division	1 / 2 / 5 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Platter Size	280 x 230mm (W x D)
Dimensions	320 x 180 x 280mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)

FEATURES

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- High speed 24bits AD; Display reading speed faster
- Faster weighing stability
- Faster zero return
- Zero key and Tare key reactfaster
- Weight and quantity over-limit warming
- IPX6 wash down design

JBCH3

Capacity	3 / 6 / 7.5 / 15 / 30 / 60 / 75 Kg
Division	0.1 / 0.2 / 0.5 / 0.5 / 2 / 2 / 5 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Platter Size	334 x 254mm (W x D)
Dimensions	300 x 110 x 330mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi

KBCH3

Capacity	3 / 6 / 7.5 / 15 / 30 / 60 / 75 Kg
Division	0.1 / 0.2 / 0.5 / 0.5 / 2 / 2 / 5 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Platter Size	322 x 241mm (W x D)
Dimensions	400 x 110 x 300mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi

SAH3-C / CA2
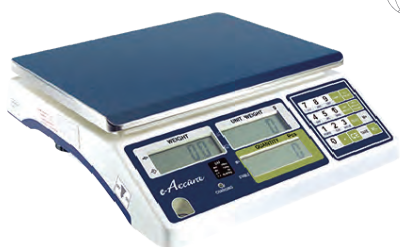
- Bright LCD display with LED backlight
- Overload protection design
- Enclosed with adjustable feet, bubble level, dust cover, rechargeable battery and power cord
- Selectable weight units: kg, lb or g, lb (depends on the request)

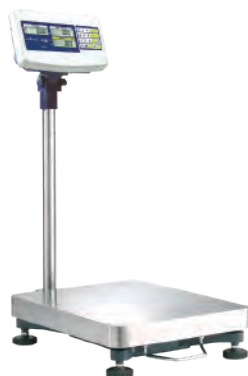| Capacity	3 / 3 / 6 / 7.5 / 15 / 15 / 30 / 30 Kg
Division	0.1 / 0.2 / 0.2 / 0.5 / 0.5 / 1 / 1 / 2 g
Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 5 / 5 / 6 digits ; 13 / 13 / 18mm (Height) ; LED backlight
Platter Size	290 x 220mm (W x D)
Dimensions	345 x 297 x 106mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FEATURES

- High speed 24bits AD; Display reading speed faster
- Faster weighing stability
- Up to 1/15,000 display resolution
- Low power and charging status

- Faster zero return
- Zero key and Tare key reactfaster
- Vendor and customer sides LCD displays with LED backlight

AXC

Capacity	3 / 6 / 7.5 / 15 / 30 Kg
Division	0.2 / 1 / 0.5 / 1 / 2 g
Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	275 x 105 x 310mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FXC

Capacity	3 / 6 / 7.5 / 15 / 30 Kg
Division	0.2 / 1 / 0.5 / 1 / 2 g
Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 18mm (Height) LED backlight
Dimensions	300 × 110 × 330mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi

SXC

- Enclosed with indicator dust cover, rechargeable battery and power cord
- Easy to set any specification and up to1/15,000 display resolution
- 15 levels sampling speed available
- Weight and quantity accumulation available
- Tare and pre-tare functions

Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	256 x 170 x 90mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

TXC

- Up to 1/15,000 display resolution
- High speed 24bits AD; Display reading speed faster
- Auto calibration function
- Weight and quantity over-limit warning
- Low power and charging status indication

Power	AC 100V ~240V (±10%) adapter + 18650 Lithium Ion battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

FEATURES

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- High speed 24bits AD; Display reading speed faster
- Faster weighing stability and zero return
- Zero key and Tare key reactfaster
- Option RS232 interface

RCH3

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	260 x 210 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

KCH3

Power	AC 110V / 230V (±10%) DC 6V / 4.5Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	245 x 195 x 156mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

TCH3 / TCH4

Approval Model : TCH3
Non-approval Model : TCH4

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- High speed 24bits AD; Display reading speed faster
- Faster weighing stability and zero return
- Zero key and Tare key reactfaster
- Auto calibration function, OL protection

Power	**TCH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery **TCH4 :** AC 100 ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

SBH3-C / CQ2

- Enclosed with indicator dust cover, rechargeable battery and power cord
- Easy to set any specification and up to 1/15,000 display resolution
- 15 levels sampling speed available

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 / 6 digits ; 14mm (Height) LED backlight
Dimensions	176× 156× 164mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model :** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

LKCH3 / LKCH4

Power	**KCH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	KCH4 : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 /6 digits ; 14mm (Height) LED backlight
Platter Size	460 x 600mm
Dimensions	245 x 195 x 156mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **OIML Approval Model (KCH3):** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- Digital calibration
- Faster weighing stability and zero return
- Zero key and Tare key reactfaster

LTCH3 / LTCH4

Power	**TCH3 :** AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
	TCH4 : AC 100V ~ 240V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 /6 digits ; 14mm (Height) LED backlight
Platter Size	460 x 600mm
Dimensions	280 x 220 x 117mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **OIML Approval Model (TCH3):** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

- 1/3,000, 1/6,000, 1/15,000 up to 1/30,000 display resolution
- High speed 24bits AD ; Display reading speed faster
- Faster weighing stability
- Faster zero return
- Zero key and Tare key reactfaster
- Auto calibration function, OL protection

DSBH3-C

Power	AC 110V / 230V (±10%) DC 6V / 4Ah rechargeable battery
Display	LCD 6 / 6 /6 digits ; 14mm (Height) LED backlight
Platter Size	460 x 600mm
Dimensions	176× 156× 164mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) **Approval Model:** -10°C ~ 40°C (14°F ~ 104°F)
Option	RS232 or Wi-Fi or Bluetooth

- Enclosed with indicator dust cover, rechargeable battery and power cord
- Easy to set any specification and up to 1/15,000 display resolution
- 15 levels sampling speed available

BATCH WEIGHING CONTROLLER

320S High Performance
Batch Weighing Controller

FEATURES

- Large 6-digit LED Display (21mm hight)
- Highspeed A/D Conversion of 360 times/second
- Built-in RS-232 and RS-485 Interfaces
- Support Modbus over TCP/IP and Modbus RTU over TCP/IP
- External USB Data Log
- Easy Setting and Update Via Web Browser
- EN 61010-1:2010/A1 and EN61326-1 Industrial Enviroment

OVERVIEW

320S is a powerful model specially designed for weight control. It has a small size and a large screen, which is convenient to store in the control machine or inlay on the control panel without taking up space.
The A/D conversion rate is increased by up to 360 times per second, and supports firmware update through web browser . The webpage can control the specification setting, which improves the operation effeciency and is more intuitive.

You can use Onboard RS-232 and RS-485 to communicate with different devices at the same time. USB data log is more convenient for data management and storage.
The the LED character height is 21mm , and the red and green design suits various usage environments.
Industrial-grade high anti-interference ability, the cabinet has a sturdy matte brushed texture.

SPECIFICATIONS

Analog

Load cell excitation	DC 5V ±5%, 120 mA 【8x350Ω load cells sensor】
Max.load cell input voltage	0 ~ 4.0 mV/V
Input sensitivity	0.2 uV/D
A/D resolution	360 times/second

Digital

Display	6 digits red or green LED, 21mm, 7-segment
Decimal point position	Selectable 0, 0.0, 0.00, 0.000
Display frequency	Optional: unlimited /20/10/5/1 times/second
Number of digits	-199999 to 999999
Minor division	1, 2, 5, 10, 20, 50
Status diaplay	4 selectable status: Zero, MD, Gross, Net, Accu.V, Accu.C, SP1, SP2, SP3, Hi, OK, Lo, Under, Over, Unloading, Running, Hold
Button	ON/OFF, Zero, Tare, F1, F, Enter

General

Power source voltage	AC 90 ~ 240V 50 / 60Hz
Power consumption	About 10 VA
Operating temperature	0°C~ 40°C
Operating humidity	< 85% RH
Safety regulations	EN 61010-1:2010/A1 (Low Voltage Directive) EN61326-1 (EMC Directive) Industrial Enviroment

Other

Memory content	Calibration data, Function data Other settings (EEPROM)
Calibration data protection	Calibration data and related settings protection function, can not be changed arbitrarily

Interface

RS-485	Terminal block; support Modbus RTU
RS-232	Terminal block
USB 2.0 Type A	Support USB data log and time setting
RJ-45	10/100Mbps; support LAN web browser for system settings and firmware updates; support Modbus RTU over TCP/IP

OPTIONS
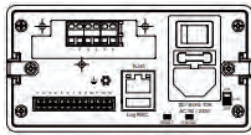
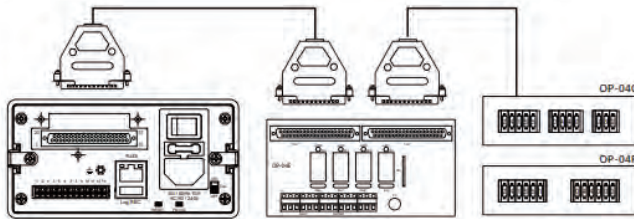

OP-01 :
RS-422 / RS-485 / RS-232 serial interface
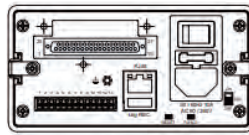
OP-02-1 :
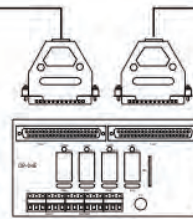BCD Parallel output interface (Open Collector)

OP-02-2 :
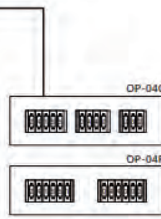BCD Parallel output interface (TTL)
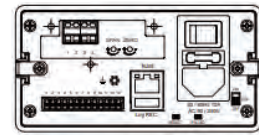
OP-02-3 :
Analog output interface (4 ~ 20mA, 0~ 10V)

OP-04 :
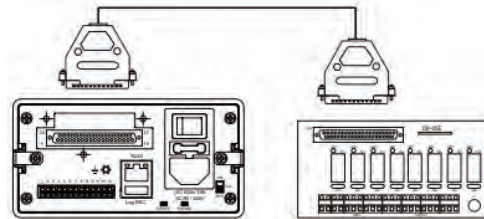Control I/O (4 In / 4 Out) +
Setpoint Input (BCD Code)
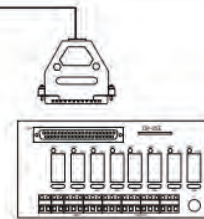
OP-04E :
Relay Output (4 In / 4 Out)

OP-04C :
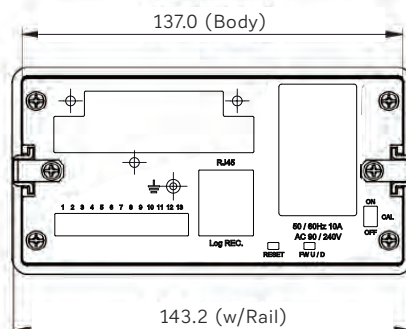HI, LO input interface

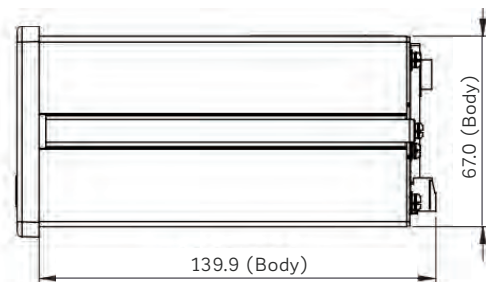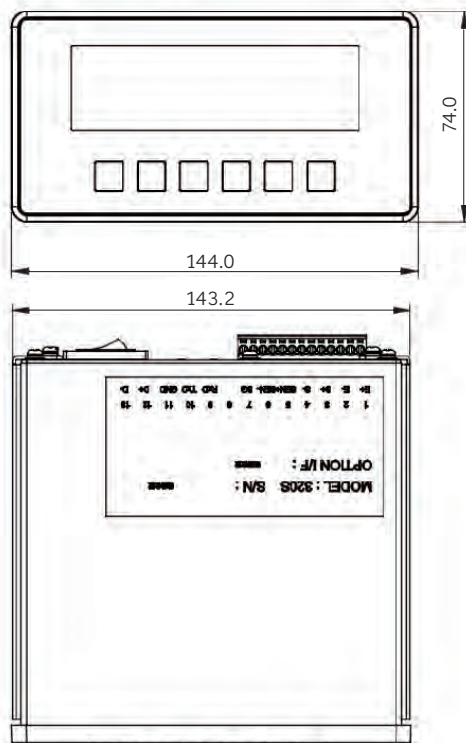**OP-04F :**
Setpoint input interface

OP-05 :
Control I/O (8 In / 8 Out)

OP-05E :
Relay Output (8 In / 8 Out)

DIMENSION

74.0

144.0

143.2

67.0 (Body)

139.9 (Body)

137.0 (Body)

143.2 (w/Rail)

EX-2001 NC Rancer

Power	AC 100V ~ 240V 50 / 60Hz
Display	LED 7 digits ; 20.3mm (Height)
Dimensions	210 x 108 x 207mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)

OP-01 : RS-422/RS-485
OP-02 : Parallel BCD output (TTL / O.C)
OP-03 : Analog output
OP-05 : Parallel printer output
OP-05F : Freeform printer interface
OP-06 : RS-232 (in/out) / Current loop
OP-07 : RS-232 (in/out) / Current loop / Data clock
OP-08 : Control I/O (2 Input / 4 Relay Output)

- Large LED display (7 digit, height 20mm)
- High speed A/D conversion with powerful digital processing; input sensitivity 0.3 μV/D; update rate 120 times/second
- Maximum load cell input voltage: -1~ 20mV

120S

Power	AC 100V ~ 240V (±10%)
Display	LED 6 digits ; 16mm (Height)
Dimensions	96 x 48 x 140mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)

OP-02-2 : BCD parallel output interface (TTL output)
OP-03 : 16 Bit Analogue current (0 ~ 20 mA) / voltage (0~10V) output interface
OP-04E : Relay Output (4 In / 4 Out)
OP-04C : Hi, Lo, OK input interface (BCD code)
OP-04F : Setpoint input interface (BCD code)
OP-05 : Control I/O (8 In / 8 Out)
OP-05E : Relay Output (8 In / 8 Out)

- Stand alone batching mode or connect to PLC for external system control
- Built-in MODBUS RTU format easily connect with any human machine interface and PLC
- Built-in full duplex RS232C interface or RS-485 serial interface

150S

Power	DC 12V ~ 24V
Display	LED 6 digits ; 16mm (Height)
Dimensions	96 x 48 x 140mm (W x H x D)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)

OP-02-2 : BCD parallel output interface (TTL output)
OP-03 : 16 Bit Analogue current (0 ~ 20 mA) / voltage (0~10V) output interface
OP-04E : Relay Output (4 In / 4 Out)
OP-04C : Hi, Lo, OK input interface (BCD code)
OP-04F : Setpoint input interface (BCD code)
OP-05 : Control I/O (8 In / 8 Out)
OP-05E : Relay Output (8 In / 8 Out)

- DC power supply: with DC12V~24V power supply design for the application of flame-proof system
- Built-in MODBUS RTU format easily connect with any human machine interface and PLC
- Built-in full duplex RS232C interface or RS-485 serial interface

PLATFORM

PLATFORM

— Compatible with all EXCELL Indicators —

Experience the Perfect Balance of Strength and Precision

EXCELL ®
Since 1979

Aluminum Die-Casting Base Platform (Optional Casters)

M
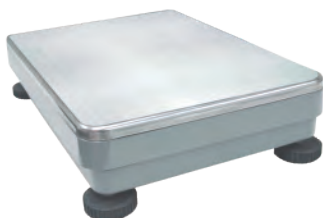
Capacity	75 / 150 / 300 Kg
Platter Size	375 x 520mm

D

Capacity	75 / 150 / 300 Kg
Platter Size	420 x 520mm

L

Capacity	75 / 150 / 300 / 600 Kg
Platter Size	460 x 600mm

FEATURES

- ABS housing and TYPE 304 stainless steel platter
- Drainage channel design underneath the platter to prevent water running into the platform
- X Shape Aluminum Supports
- Reinforced engineering structure design

J

IPX6

Capacity	6 ~ 75 Kg
Platter Size	334 x 254mm

K

IPX5

Capacity	15 ~ 75 Kg
Platter Size	322 x 242mm

T

IPX6
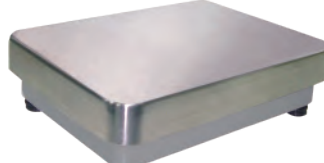
Capacity	30 ~ 150 Kg
Platter Size	400 x 300mm

V

IPX5

Capacity	30 ~ 150 Kg
Platter Size	370 x 271mm

Welded Mild Steel Construction

P

- Stainless Steel Top 1.5mm thick
- Welded Mild Steel 1.4mm Thick
- Bubble Level For Accurate Measurement
- Bottom Cover Plate Prevent Water Splash Onto Load Cell
- Sturdy Screw Posts For Rubber Feet Avoid Thread Stripping

Capacity	75 / 150 / 300 Kg
Platter Size	420 x 520mm

Stainless Steel Construction

SS
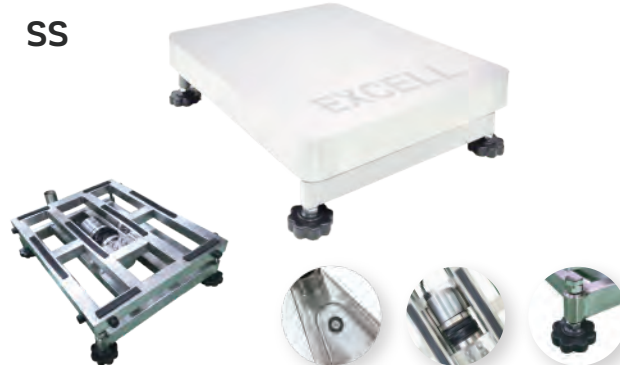
- Stainless Steel Top 1.5mm Thick
- Stainless Steel 1.2mm Thick
- Bubble Level For Accurate Measurement
- Waterproof Kit Prevents Water From Splashing Into the Load Cell
- Sturdy Screw Posts For Rubber Feet Avoid Thread Stripping

Capacity	75 / 150 / 300 Kg
Platter Size	400 x 500mm

INDUSTRIAL SCALE

FEATURES

- Easy operation and rugged aluminum alloy housing
- Overloading safety up to 400%
- 360 rotatable crane hook with excellent stability and safety design
- Rechargeable battery easily replacement design
- Hold function

- Full range tare, Auto zero tracking, Gross/Net Indication
- Low power indication and auto power off for longer operation time
- Remote control included with control distance up to 30m

GJW-4E Crane Scale

- Manual/ Auto / Peak weight hold function, Set point control function
- Selectable units "kg", "lb" and "t"
- Easy reading with high brightness LED

Capacity	30 / 60 / 100 / 200 / 300 / 600 / 1000kg
Power	AC 100V ~ 240V (±10%) adapter + DC 6V / 7Ah rechargeable battery
Display	LED 5 digits ; 26mm (Height)
Dimensions	**30~100kg :** 160 × 232 × 174 mm **200~1T :** 160 × 325 × 174 mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

GJW-7C Crane Scale

- Pre-tare function
- Check weighing with Lo/ Hi/ OK
- Selectable units "g", "kg", "|b", "t" and "pcs"
- Simple counting function
- LCD display with LED backlight

Capacity	30 / 60 / 100 / 200 / 300 / 600 / 1000kg
Power	AC 100V ~ 240V (±10%) adapter + DC 6V / 7Ah rechargeable battery
Display	LED 5 digits ; 26mm (Height); LED backlight
Dimensions	**30~100kg :** 160 × 232 × 174 mm **200~1T :** 160 × 325 × 174 mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)

HJW

Simple Weighing Hanging Scale

- Up to 1/6,000 display resolution
- Hold function, Check weighing with Lo / Hi / OK
- Simple counting function
- Full range tare, Pre-tare, Auto zero tracking
- Gross/Net Indication
- Selectable unit mode
- Low power indication and auto power off
- LCD display with LED backlight

| Capacity	6 / 15 / 30 / 60 / 100 kg
Power	AC 100V ~ 240V (±10%) adapter (Standard) + DC 6V / 7Ah rechargeable battery(Option)
Display	LCD display : 128 x 40mm ; 6 digits ; 28mm (Height) ; LED backlight
Dimensions	195 × 243 × 86 mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Weight of the scale	Around 3kg
Option	Hanging tray set (for 6~30kg) DC 6V/7Ah rechargeable battery Second display

HJP

- Up to 1/6,000 display resolution
- High speed 24bits A/D converter
- Fast weighing stabilization and zero return
- 21-key control keypad
- Two control modes(Wired/Wireless)
- Digital calibration
- Vendor and customer sides display
- 6 digits LCD display with LED backlight
- Low power and charging status indication
- Battery Life: 170~260 hrs
- DC 6V/7Ah rechargeable battery

Capacity	6 / 15 / 30 / 60 / 100 kg
Power	AC 100V ~ 240V (±10%) adapter (Standard) + DC 6V / 7Ah rechargeable battery(Option)
Display	LCD display : 71 x 22mm ; 6 , 6 , 6 digits ; 17mm (Height) ; LED backlight
Dimensions	195 × 330 × 86 mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Weight of the scale	Around 3kg
Option	Hanging tray set (for 6~30kg) Carabiner

FJ5

- Meets the IK10 impact resistance rating and IP66 waterproof rating
- 360° rotatable crane hook design (for 1T ~ 3T models)
- Overload Safety Factor : Up to 600% for 1T ~ 5T; up to 350% for 7.5T ~ 15T or more
- Standard model comes with RF remote controller* (up to 30m range)option with bluetooth handset

Capacity	1 / 1.5 / 2 / 3 / 5 / 7.5 / 10 / 15 T
Division	0.5 / 0.5 / 1 / 1 / 2 / 5 / 5 / 5 Kg
Power	AC 100V ~ 240V (±10%) + DC 6V / 10Ah rechargeable battery
Display	LED 5 digits ; 25.4mm (Height)
Dimensions	**1T ~ 3T :** 210 x 218 x 665mm **5T :** 210 x 278 x 753mm **7.5T :** 210 x 278 x 890mm **10T ~ 15T :** 210 x 438 x 945mm
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F) (Approval)
Options	Sun visor Wireless remote control / display

Floor Scale
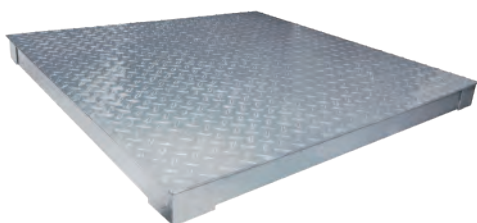
- Capacity : 1T ~4T (1/3000 display resolution)
- Freestanding model with 4 adjustable feet
- Widely used for weighing goods and small vehicles in factories enterprises, railways and harbors etc.
- 4 load cells are included
- Load cells can be replaced individually
- Connectable to any weighing indicators and printer interface or RS232 serial data output

Option :
- Ramp
  F-T-1010 : 1.0 x 1.0m
  F-T-1212 : 1.2 x 1.2m
  F-T-1515 : 1.5 x 1.5m

GoW Wireless Platform   GoW + (TM transmitter + platform)

- There is no weight data output function for GoW
- GoW without RS232 function
- It can not use USB Bluetooth Dongle anymore

QoW Wireless Platform   QoW + (TM transmitter + platform)

- There is no weight data output function for QoW
- QoW without RS232 function
- It can not use USB Bluetooth Dongle anymore
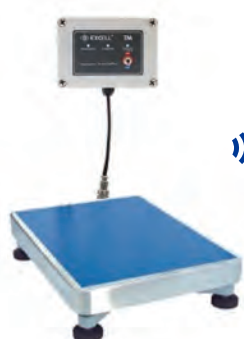
GW Bluetooth Indicator   GW Bluetooth indicator

Ⓐ BLE4.0 Computer

Ⓑ USB

- GW without RS232 function
- 2 options for Bluetooth connection
  A. offer Bluetooth profile to customer for developing
  B. use USB Bluetooth Dongle to connect with PC
- Bluetooth output is in continuous transmission weight format

  BLE4.0 for computer uses windows 10 operating system or newer version or Android with BLE4.0 device.

QW Bluetooth Indicator   QW Bluetooth indicator

Ⓐ BLE4.0 Computer

Ⓑ USB

- QW without RS232 function
- 2 options for Bluetooth connection
  A. offer Bluetooth profile to customer for developing
  B. use USB Bluetooth Dongle to connect with PC
- Bluetooth output is in continuous transmission weight format

  BLE4.0 for computer uses windows 10 operating system or newer version or Android with BLE4.0 device.

TM Transmitter   TM transmitter + platform

A BLE4.0 Computer

B USB

- 2 options for Bluetooth connection
  A. offer Bluetooth profile to customer for developing
  B. use USB Bluetooth Dongle to connect with PC
- Bluetooth output is in continuous transmission weight format

> BLE4.0 computer is use windows 10 operating system or newer version or Android with BLE4.0 device.
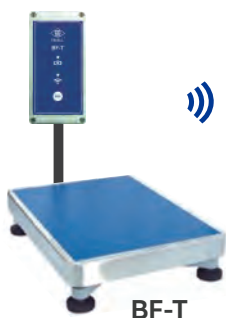
Bluetooth Scale

A BLE4.0 Computer

B USB

- Table scale without RS232 function
- 2 options for Bluetooth connection
  A. offer Bluetooth profile to customer for developing
  B. use USB Bluetooth Dongle to connect with PC
- Bluetooth output is in continuous transmission weight format

> BLE4.0 for computer uses windows 10 operating system or newer version or Android with BLE4.0 device.

BF-T BF-R Wireless Platform

BF-R

BF-T

- Can not use USB Bluetooth Dongle
- RS232 output mode of BF-R is transmitted by key

## FJ5 Bluetooth Crane Scale

A

B BLE4.0 Computer

C USB

- 3 options for Bluetooth connection
  A. offer Bluetooth profile to customer for developing
  B. Once the mobile device is connected, it cannot be connected to a computer or USB Bluetooth Dongle
  C. use USB Bluetooth Dongle to connect with PC
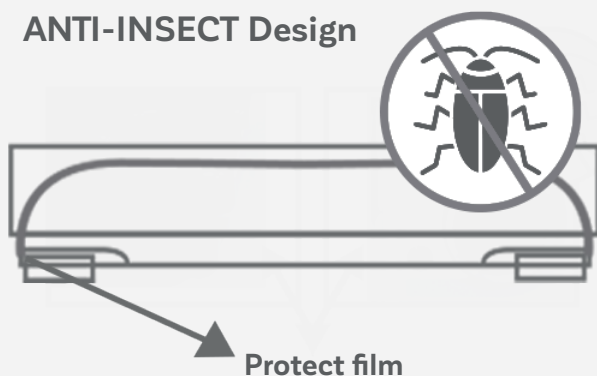- Bluetooth output is in continuous transmission FJ5 weight format

> BLE4.0 for computer uses windows 10 operating system or newer version or Android with BLE4.0 device.

EⓍzPⓄE Ethernet Scale

Configurable for Industrial Applications
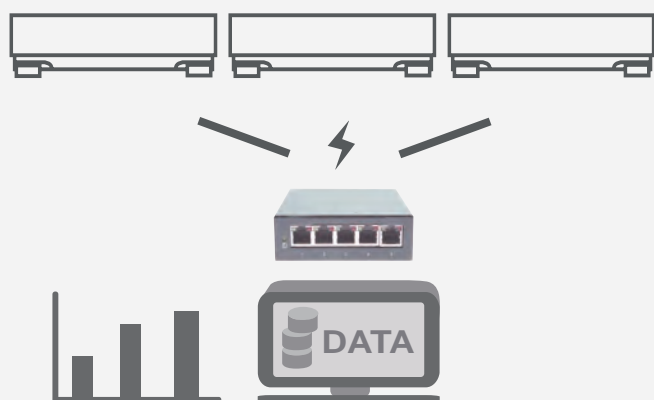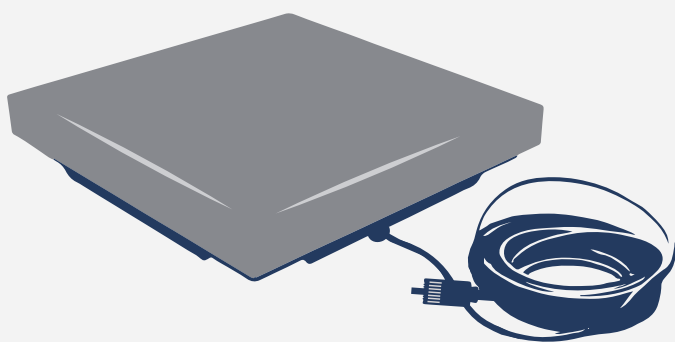
FEATURES

- Power-over-Ethernet (PoE) Interface
- Connect Scale to Local Area (LAN) Network
- Rea-Time Weighing Data Measurement
- Powerful Weighing Data Management
- Robust and Reliable Design for Harsh and Hygienic Environments
- AISI 430 Stainless Steel
- IP54 Waterproof
- Anti-Insect Design
- Easy cleaning and Hygienic Design

PRODUCT DESCRIPTION

Excell EXZ PoE Ethernet Scale is designed to be connected to any Local Area Network (LAN), an ideal solution to send scale data over the internet into a database system. Data from scales in many different locations could all report to the same database. This would allow central offices to use this data for a variety of purposes.

With its AISI 430 stainless steel housing with IP54 Waterproof and Anti-Insect design, EXZ PoE Ethernet Scale can be used in harsh and hygienic industrial environments.

A special protocol allows communication to be established with the central web server without any user intervention. EXZ PoE Ethernet Scale is the ideal solution for weighing process at all industries, especially when you need to keep tracking of weighing data in real-time on a daily, hourly, or even more frequent basis if necessary.

ANTI-INSECT Design

Protect film

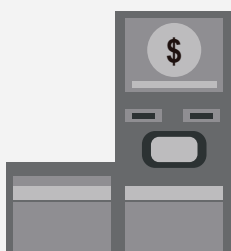|	
Capacity	60 Kg x 0.05 Kg
Dimension	300 x 300 x 65 (W x D x H)
Enclosure	AISI 430 Stainless Steel
IP Protection	IP 54
Operating Temperature	0°C ~ 50°C
Humidity	5 ~ 90% @40°C, Non-Condensing
Interface	Power over Ethernet (IEEE802.3)

SCALE ACCESSORIES

EXK Weighing Pal

You Scale Development & Integration Kit

Load Cell   **EXK**   **USB**   **Computer**   **Printer**   **Barcode Scanner**

Checkout Scale   **Self-service Scale**   **Dimensioning Scale**

FEATURES

- One micro-USB port for both power and data communications
- USB driver OS support:
- Windows XP/2K/Server 2003/Vista/7/8/8.1/10
- WinCE 5.0/6.0
- Mac OSX
- Linux 2.6.x/3.x.x and 4.x.x • Android 4.2
- 2 COM ports via USB interface
  (separate COM ports for weighing data and commands)
- Supports 3 types of data: weighing, counting, internal value
- Supports 4 weighing functions: Tare, pre-tare, zero, and zero tracking
- Connects to any weighing platform with 5-pin Aviation platform connector
- Compact size: 12 x 6 x 3 cm (excluding platform cable and connector)
- Easy to use with Weighing Kit WKT software (compatible with XP(SP3)/Win7/8/10)

Resolution	Up to 1/15000 (determined by platform load cell's resolution) Supports dual-interval resolutions
Units	Kg / g / lb / oz / carat / T
Dimensions	120 x 60 x 30mm (excluding 5-pin platform connector & cable)
Weight	117 g (including 5-pin platform connector & cable)
Power source	5V 500mA (Micro-USB bus-powered)

BLE Dongle

Power Supply	DC 5V (USB-powered)
Dimensions	70 x 26 x 12mm
Connector	USB Type-A male
Transmission Power	-6 to 4 dBm
USB Specification	Supports USB 2.0 VCP
Dongle Setup	Via direct commands or FernLand BLE Tool

- Connects your Scale-IoT® scale(s) to your computer wirelessl via Bluetooth connection
- Supports Bluetooth Specification V4.0 (BLE) or above
- Easy-to-carry compact size

- Baud Rate: 1200 ~ 921.6Kbps (N.8.1) (Auto BaudRate)
- Standard USB Connector
- Dongle can be set up by communication tools using commands or by using FernLand BLE Tool

TM

Bluetooth	4.0 BLE
Dimensions	130 x 94 x 58mm
Resolution	1/3000 ~ 1/15000 depending on the quality of the loadcell
Power supply	AC 100V ~ 240V (±10%) DC12VAdaptor or DC 3.7V / 1500mAh lithium battery

- Through Bluetooth transmitting weighing data, range up to 20M
- Work with any platform with 5-pin Aviation plug Continuous use for 70 hours or standby for 1600 hours

- Easy setup with APP ScaleConfig
- External antenna can extend the range up to 60M (option)

WiFi Module

Communication Specification	UART
Setup / Management	Web-based
WiFi Work Mode	AP and/or STA mode(s)
UART Baud Rate	1200 to 460800 bpss
Transmission Modes	TCP/UDP server/client
Dimensions	72 x 47 x 10mm (excluding antenna)

- Add Wi-Fi connection to your compatible EXCELL scale
- Incorporate Scale-IoT® to your compatible EXCELL scale
- Web-based setup and man agement

- Wi-Fi operates in AP and/or STA modes (password protection can be used)
- UART communication specification

J4

IP68

Dimensions	177 x 86 x 38mm
Load Cell Resistance	350 ohms
Ports and Connectors	4 x load cell connector (PA66 gland) 1 x indicator connector (PA66 gland)

- IP68 waterproof with aluminum cases and nylon PA66 clamping glands
- 2 to 4 load cell inputs

- Accept cables from 3.5mm to 7.0mm in diameter
- Clamping gland torque 15 kg-cm or 1.5 N-m

J4-S

IP68

Dimensions	145 x 100 x 36.7mm
Load Cell Resistance	350 ohms
Ports and Connectors	4 x load cell connector (PA66 gland) 1 x indicator connector (PA66 gland) 1 x pressure relief valve

- IP68 waterproof with stainless steel cases and nylon PA66 clamping glands
- 2 to 4 load cell inputs

- Accept cables from 3.5mm to 7.0mm in diameter
- Clamping gland torque 15 kg-cm or 1.5 N-m

J8-P Surge

IP66

Dimensions	237 x 291 x 100mm
Load Cell Resistance	350 ohms
Ports and Connectors	8 x load cell connector (PA66 gland) 1 x indicator connector (PA66 gland) 1 x expansion connector (PA66 gland) 1 x ground connector 1 x pressure relief valve

- IP66 waterproof with PC cases (flame class: HB) and nylon PA66 clamping glands
- Surge & lightning protection
- 8 load cell inputs

SP-151

IP65

Dimensions	130 x 130 x 102mm
Maximum Surge Current	10KA @ 8 /20 μ S
Leakage Current	10 μ A@ 32V dc
Limiting Voltage	80V @ 6kV/3kA
Connections	6 wires + screen + earth

- IP65 waterproof
- Protects load cells, weighbridges, process weighing and silos Reliable, high surge absorption capacity

- Easy field installation in rugged weatherproof enclosure
- Can be used in intrinsically safe circuits without further certification

RS232 Formater

Power	5V 1A
Dimensions	91.3 x 110 x 44.8mm
Weight of the Converter	Around 225 g
Setting Port	Micro USB
Windows OS	XP SP3 and above

- Reconfigure/rearrange any RS-232 Data at your fingertips

- Use Function Box Config Tool (FBCT) to setup printing format/label with any programmable printer

BLE LED Display

BT

Power	AC 100V ~ 240V
Display	6 digits BLE LED Display
Dimensions	3": 430 x 180 x 50mm 5": 670 x 270 x 58mm 8": 900 x 320 x 78mm

- Easy to install, simple to operate, use APP to configure
- 6-digit 7-segment high brightness LED display
- Wireless range is up to 70m

- With broadcasting function, multiple BLE LED displays can simultaneously display the weight measurement of the selected Bluetooth crane

EXCELL®

EXCELL
55th

HERITAGE MELDS WITH NEW INNOVATION ENDLESS

HI-TECH METROLOGY · SCALE-IOT® · SCALE-FACTORY®
IP68 IP69 WATERPROOF · WIRELESS CHARGING

EXCELL®

☎ +886-2-8919-1000

✉ pm-all@excell.com.tw

🌐 www.excell-scale.com

📍 6F, No. 127, Lane 235, Baoqiao Road, Xindian District, New Taipei City, 23145, Taiwan