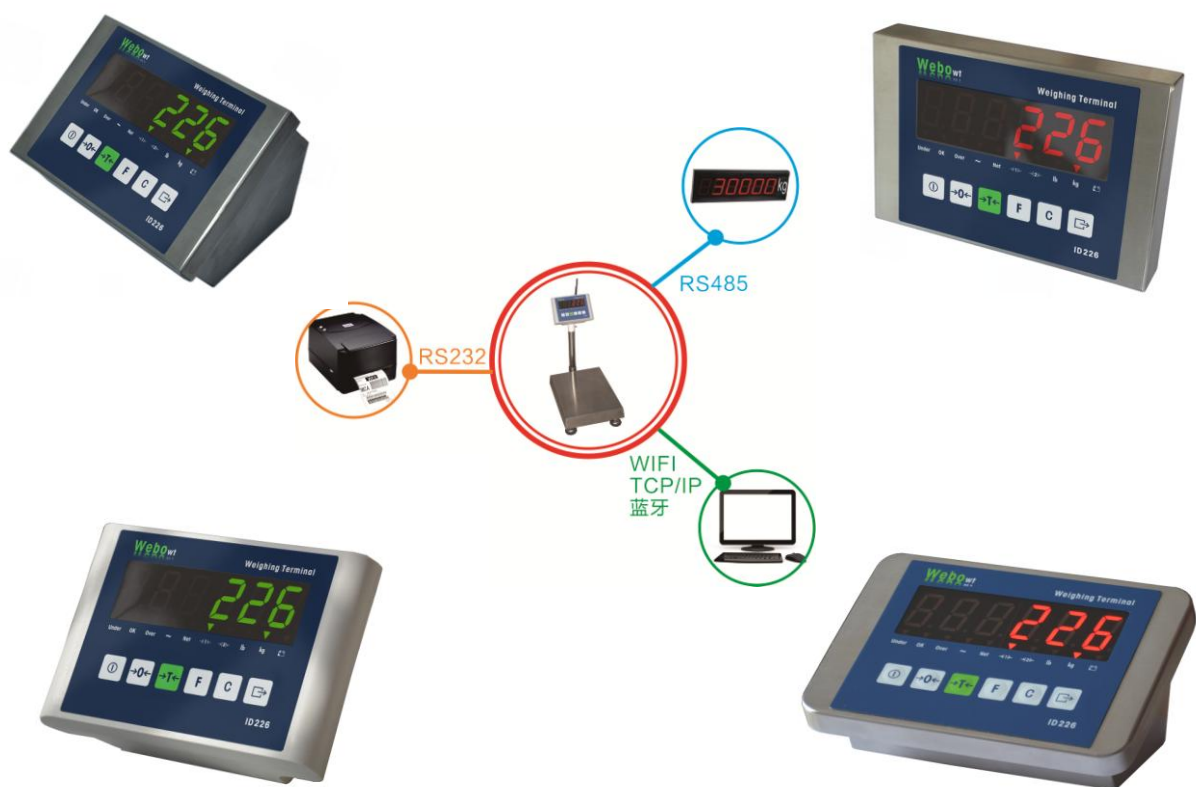


ID226 WEIGHING INDICATOR

OPERATION MANUAL



Platform Scale
Truck Scale
Animal Weighing Scale
Counting Scale
Wireless Scale



2017 / 03
Rev 1.05

CAUTION!

Do not use ID226 in hazardous areas!

Our product range includes special devices for hazardous areas



CAUTION!

Electric shock hazard!

Always unplug power cord before performing any work on the weighing terminal.



DANGER!

Hazard of electric shock if the power cable is damaged!

Check the power cable for damage regularly. Unplug the power cord immediately if the power cable is damaged.

Maintain a clearance of at least 3 cm on the rear side of the weighing terminal in order to prevent the power cable from bending too much.

CAUTION!

Do not open the weighing terminal!

The warranty is void if this stipulation is ignored. The weighing terminal may only be opened by authorized persons.



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Change Log

Version	Change	Date
V1.00	1 st Version	2013/11
V1.01	Add 5(Continuous print out) for F4.1	2015/03/01
V1.02	Add SICS commands in serial port	2015/05/17
V1.03	F4.1 add same to IND221 assignment	2015/07/04
V1.04	Add F9(Ethernet Optional)	2015/11/21
V1.05	Add label printer supported	2016/10/25

Terminal Configuration Guide

ID226 Configurator						
	Housing	Hardware	Battery	Printer	Language	Display
ID226	X	X	X	X	X	X
ID226	0-SS Desk 1-SS SLIM, Wall Housing 2-SS SLIM, Round Housing 3-Plastic Desk 4-SS-2 Desk 5-SS-2 Round Pole Housing 6-SS-2 Wall Housing	0-RS232+RS485 X 1 1-RS232+RS485+Relay 2-RS232+RS485+RTC 3-RS232+RS485+RTC+Relay T-RS232+RS485+LAN W-RS232+RS485+WIFI Y-RS232+RS485 +BlueTooth U-RS232+RS485+LAN+Relay V-RS232+RS485+WIFI+Relay X-RS232+RS485+BlueTooth	0 - None 1 - NI-MH battery 2 - Lead-Acid battery	0- None	0- Chinese 1- English	0 - Red 1 - Green



SS Desk housing



Slim Body



Plastic Body



SS-2 Desk & Wall housing
& Round Pole housing

1 Introduction

1.1 Overview

- 6 bit 33.4mm high, Red or Green LED segment display
- 5 function keys and one ON/OFF power control key
- Stainless steel enclosure with IP66 protection
- 5VDC ADC exciting output
- Support One analog scale with up to 350 Ohm x10 load cells
- ZERO input: $\geq 0.1\text{mV}$
- SPAN input: $\leq 20\text{mV}$
- Up to 200000d (Max. display division)
- Power Input: 86~264VAC, $\leq 0.1\text{A}$
 - NI-MH battery group, 7.2 VDC 2200mAh (3800mAh is optional)
 - Lead-Acid battery group, 6VDC 4000mAh
- Support two serial ports:
 - COM1 – RS232 COM2 – RS485
 - Continuous output weight and Demand Input
 - Print weight out or print pound list
 - MODBUS-RTU
 - Support Label printer
- 10/100M Ethernet (Option)
 - TCP : Continuous output weight and Demand Input or print weight out
 - UDP: Continuous output weight and Demand Input or print weight out
- 2.4GHz Wireless WIFI (Option)
 - Continuous output weight and Demand Input or print weight out
- Blue Tooth (Option)
 - Continuous output weight and Demand Input or print weight out
- 1 Inputs and 3 relay outputs (Option)
 - Input trigger Zero, Tare or Print
 - Relay output
- Operating Environment
 - Operating Temperature: $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$
 - Humidity: 10%RH~95%RH non-condensing

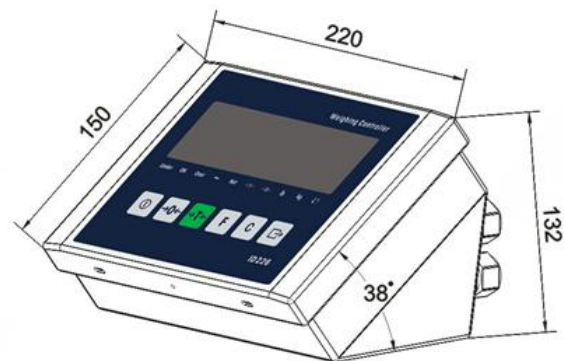
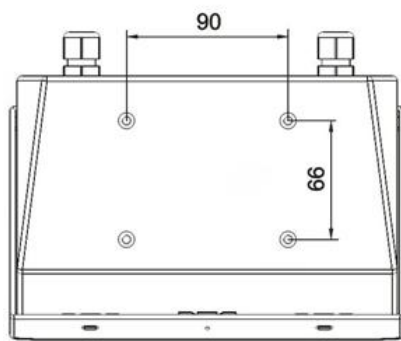
1.2 Key Points

- Up to 5 points calibration
- Basic Functionality: ZERO、TARE、CLEAR and PRINT
- Auto Tare, Auto Clear and Auto Print
- Print and Totalization
- X10 / Over/Under/OK / Count / Animal Weighing
- Auto save battery and battery indicating
- Auto Power OFF
- MODBUS-RTU communication
- Support serial port, TCP/UDP Ethernet, WIFI continue output and command input
- Over/Under/OK alarm output with relay output
- Support Label Printer
- External Input to **Zero**, **Tare**, **Clear** or **Print**.
- Load Cell off alarm

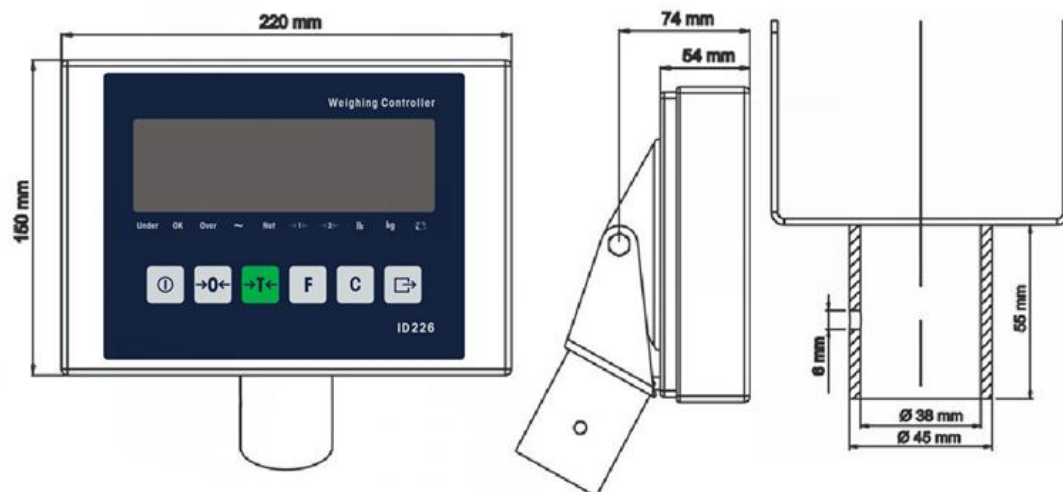
1.3 Configuration

BASIC	Serial Port(RS232 and 485), 1Scale(350ohm x 10 load cell)
Battery Option	NI-MH battery group (7.2 VDC 3800mAh), Lead-Acid battery group(6VDC 4000mAh)
Relay output Option	1 Input, 3 Relay outputs
RTC Option	Print with RTC(Real Time Clock)
Network Option	None / Ethernet /WIFI for continue output and command input

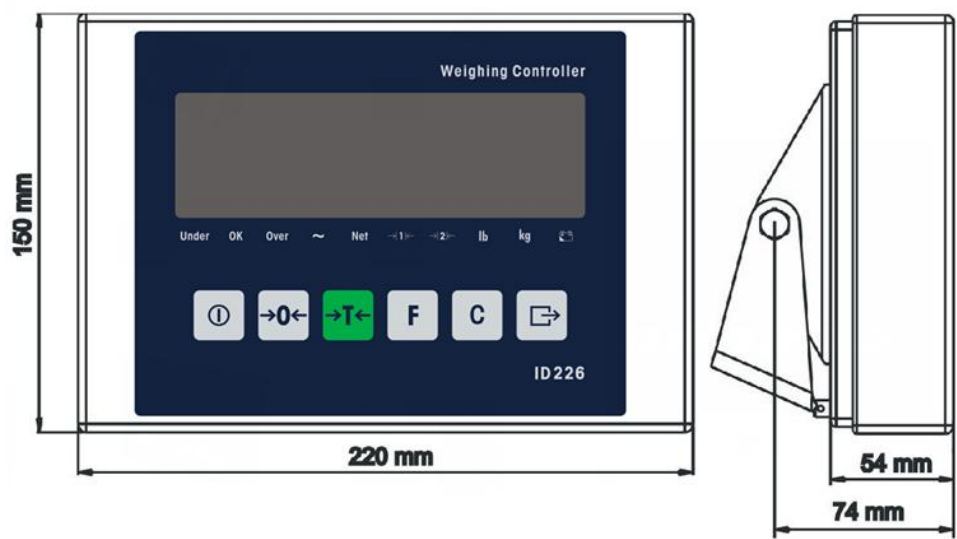
1.4 Enclosure and Housing



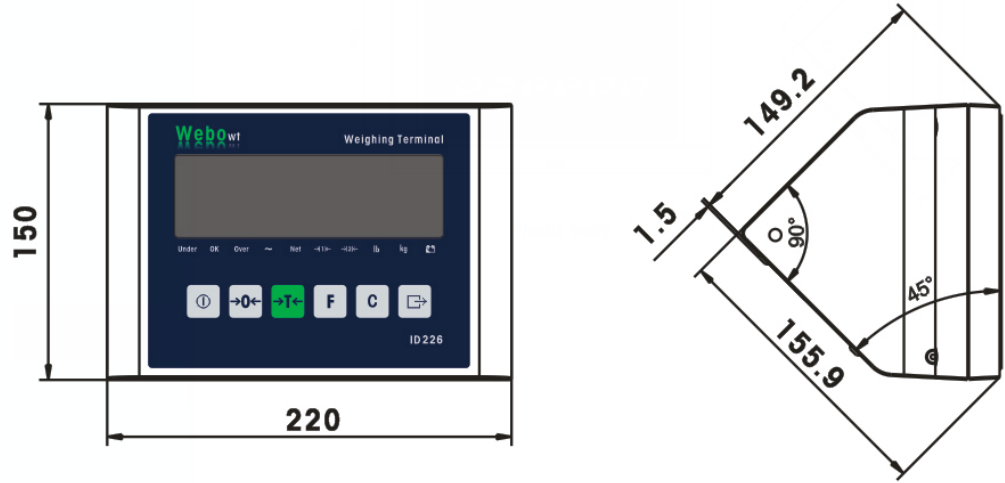
Desk Housing



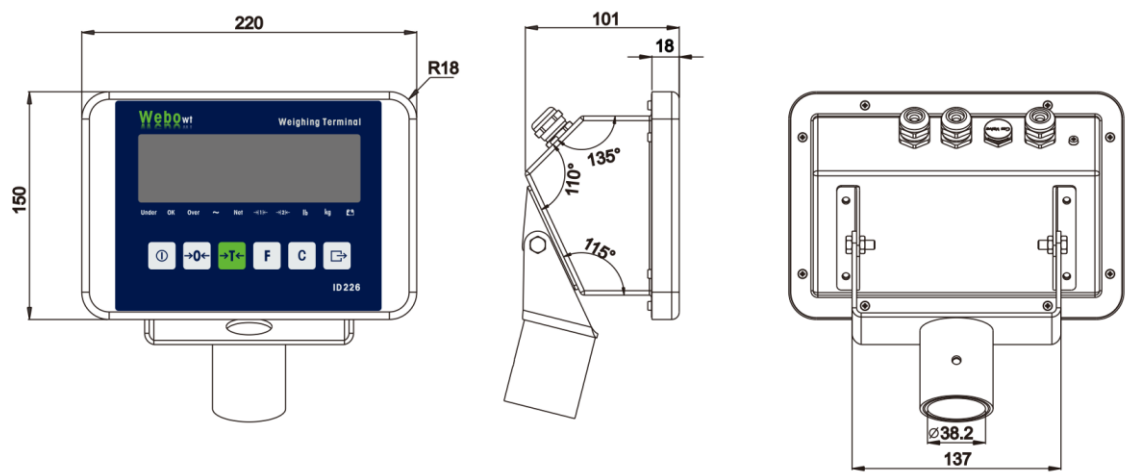
Slim Wall Housing



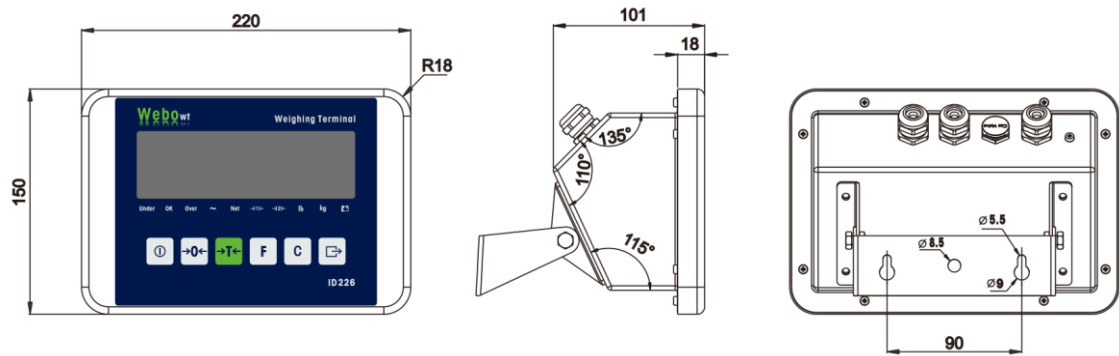
Slim Round Housing



Plastic body



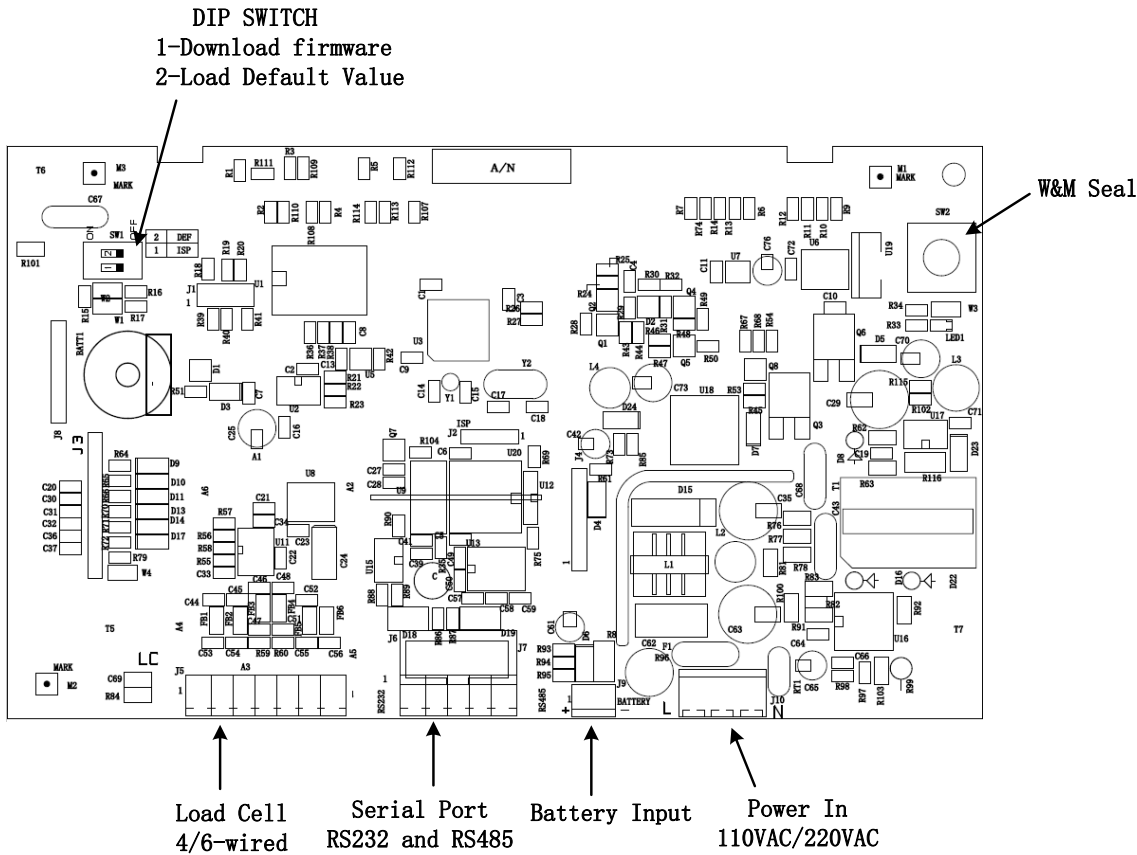
SS-2 Round Pole housing



SS-2 Desk & Wall housing

2 Harness Wiring Guide

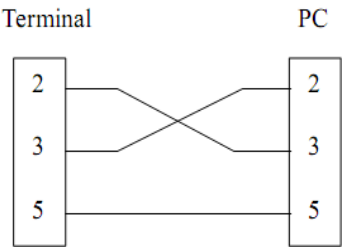
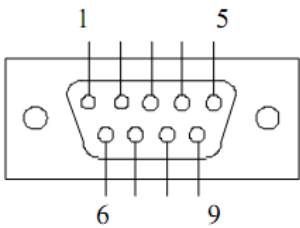
2.1 Main Board



2.2 Interface Specification

Load Cell	
PIN NO.	PIN Name
1	-EXE
2	-SEN
3	-SIG
4	SHLD
5	+SIG
6	+SEN
7	+EXE

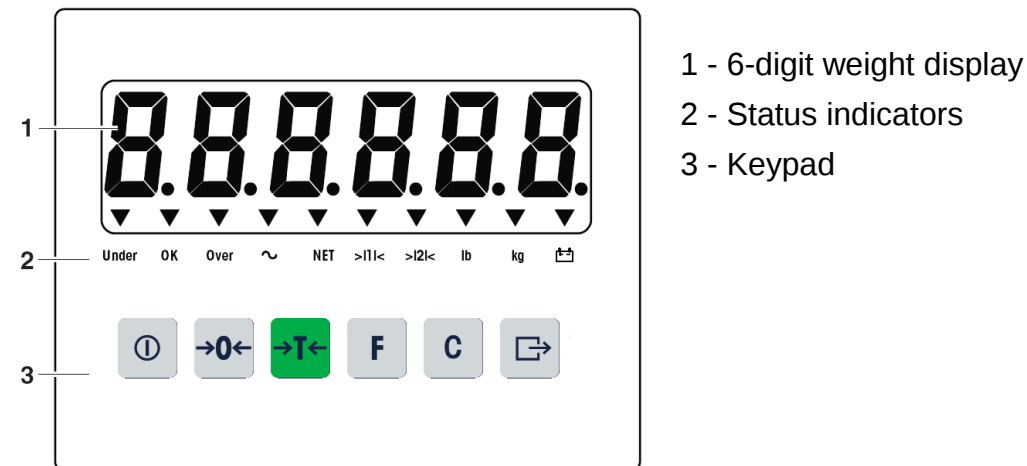
Serial Port(DB9)	
PIN NO.	PIN Name
1,4,6,9	NC
2	RXD(RS232) – COM1
3	TXD(RS232) – COM1
5	GND – COM1
7	A(RS485) – COM2
8	B(RS485) – COM2



3 Operating Weighing Terminal

3.1 Keypad

Display



Status indicators

LED	Meaning
Under / OK / Over Alternatively Count / PCS / APW Animal/ /	Indicators for check weighing Indicators for counting, overlay sticker included Indicators for animal weighing(Fast Blinking)
~	Motion Indicator
Net	The displayed weight value is a net weight value
> 1 < / > 2 <	Display of the current weighing range of the connected weighing platform.
Kg / lb	Currently chosen weight unit
	Conditions of the rechargeable battery ON: Battery is using, Slowly Blinking(Power on state):need charge Slowly Blinking(Power off state): charging

Keys

Key	Operating Mode	Menu	Key	Operating Mode	Menu
	Switching power on/off;			Function Key	Back to the next higher menu item
	Zeroing	Scrolling back		Clear Key	Back to the previous menu item
	Tare	Scrolling forward		Transfer key Long key-press: Calling up menu	Activating menu item Accepting selected setting

3.1.1 ON/OFF Power



Power ON: Press ON/OFF key and keep 2 seconds, Power On and start display testing and display firmware version.

Power OFF: Press ON/OFF key and keep 2 seconds, display [-OFF-] and then power off.

3.1.2 Zero



The zero display appears

3.1.3 Tare



The zero display and the Net indicator appear

3.1.4 Clear



The Net indicator goes out, the gross weight appears in the display.

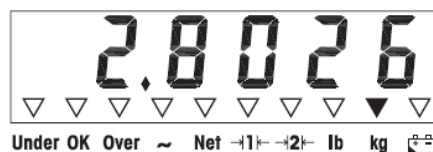
3.1.5 Print



The display contents are printed out or transferred to a computer

3.2 F key

3.2.1 X10 (F2.1 = 0—X10)



→ Press

The weight value is displayed with a higher resolution (x10) for about 20 seconds.

Note:

The weight value in higher resolution (x10) cannot be printed.

3.2.2 Over/Under/OK (F2.1 = 1— Over/Under)

F2.2.1 = 0— Checking Mode

Target Setting (F2.2.2 = 0— Weighing Input Mode)



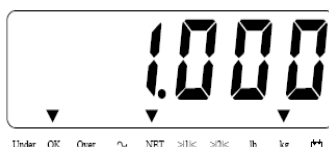
Press  key to activate the check weighing function.



Press and hold  key 2 seconds until tArGEt and the 3 indicators Under, OK and Over appear.



Put the target weight on the weighing platform and save with  key. And back to display weight.



Less than target tolerance: Under In weight tolerance: OK More than tolerance: Over

Target Setting (F2.2.2 = 1— Manual Input Mode)



Press  key to activate the check weighing function.

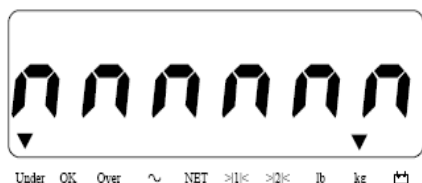


Press and hold  key 2 seconds until tArGEt and the 3 indicators Under, OK and Over appear.



Save entered weight value as target weight using the  key and back to display weight.



F2.2.1 = 1— Classify Mode**Target Setting (F2.2.2 = 0— Weighing Input Mode)**

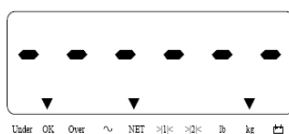
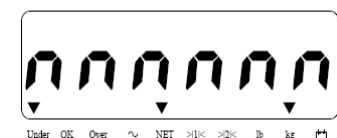
Press  key to activate the check weighing function.



Press and hold  key 2 seconds until tArGEt and the 3 indicators Under, OK and Over appear.



Put the target weight on the weighing platform and save with  key. And back to display weigh.



Less than target tolerance: Under In weight tolerance: OK More than tolerance: Over

Target Setting (F2.2.2 = 1— Manual Input Mode)

Press  key to activate the check weighing function.



Press and hold  key 2 seconds until tArGEt and the 3 indicators Under, OK and Over appear.



Save entered weight value as target weight using the  key and back to display weight



3.2.3 Counting (F2.1 = 2)

Switch display weight and piece



Display Weight

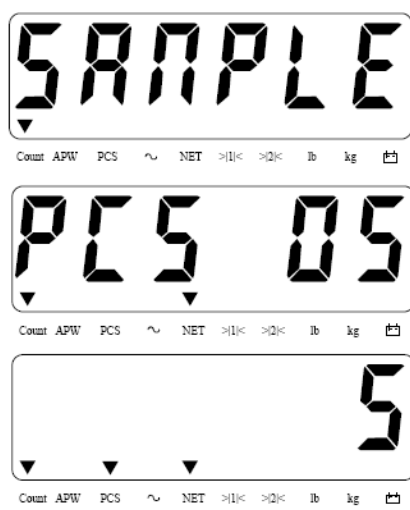
Press

Display of the number of pieces.
The Count and PCS indicators light.

Press

Display of the piece weight.
The Count and PCS indicators light.

Sample Piece Weight



Press key for 2 seconds

Press

Press key repeatedly until the desired piece number(5,10,20,50) for the determination of the piece weight appears

Press key to back to Counting display

Notice: when F2.3—APW is configured as ON, Piece weight will be adjusted automatically

3.2.4 Animal Weighing (F2.4.1 = ON)



Display the animal final weight, Count and PCS indicator fast blinking

Display the real time weight and work in animal weighing mode

3.2.5 Print and Totalization (F2.1 = 3)

Press  key, serial port will print total counter and total weight out, and then total counter and total weight will be cleared automatically.

3.2.6 Unit Switch (Kg & Lb)

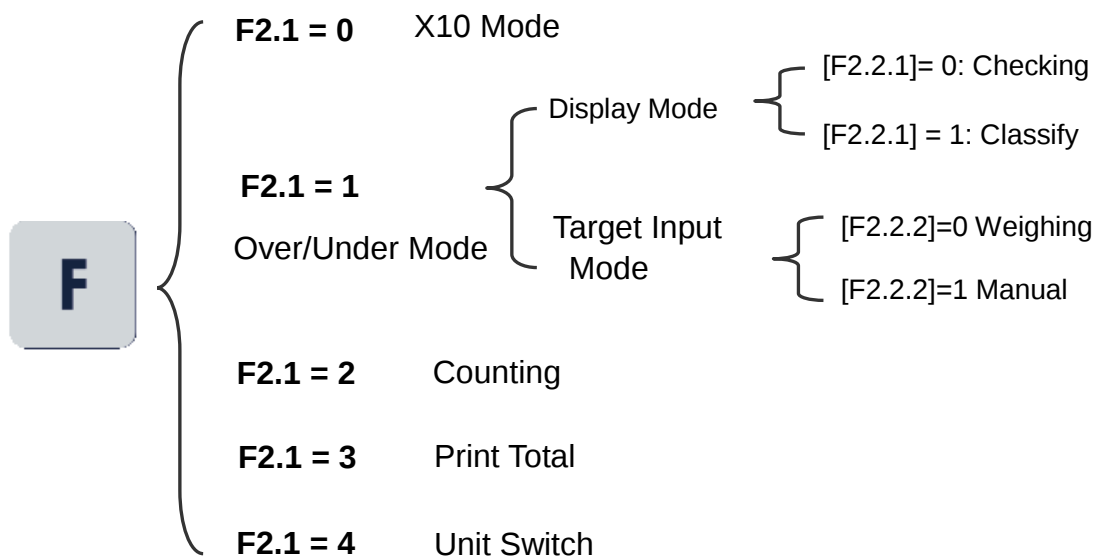
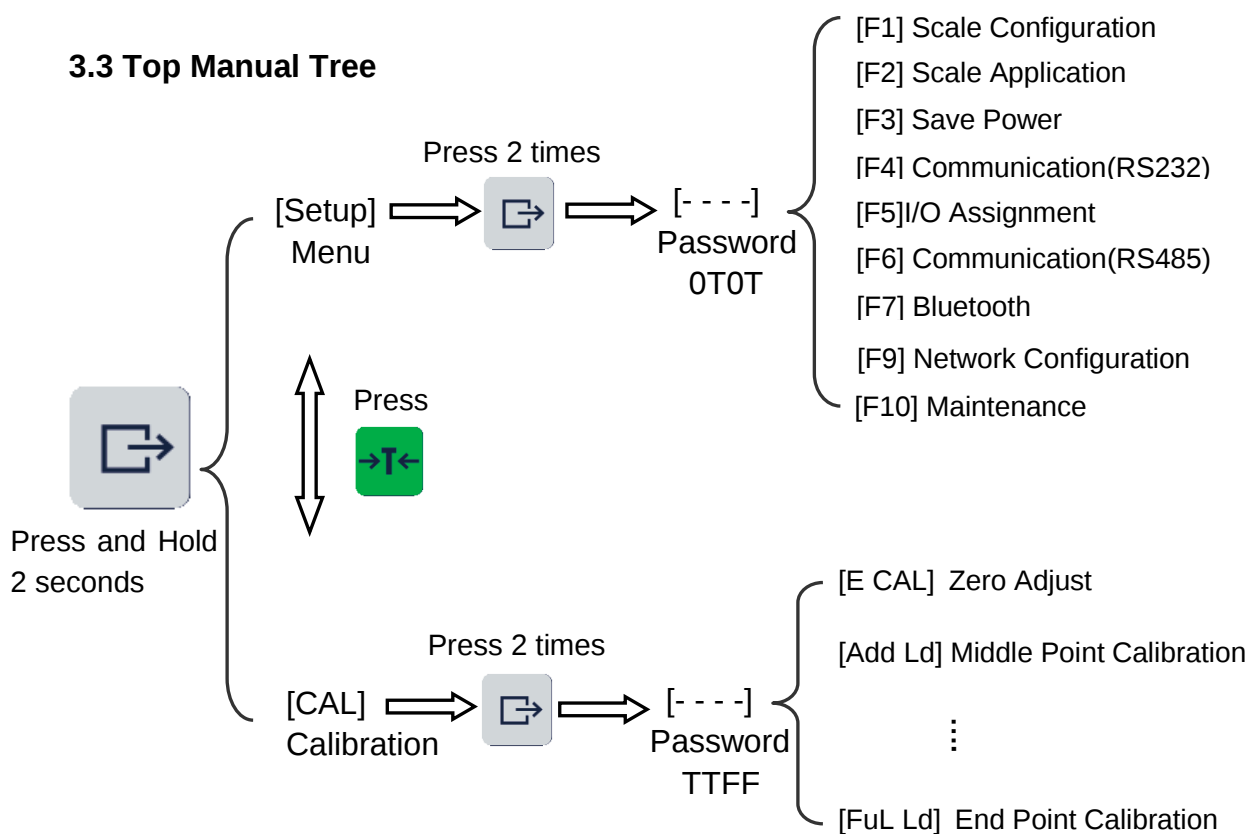
For this purpose, F2.1=4 (Unit Switch) must be set in the operator menu.



→ Press  The weight value is displayed in the second weight unit
Note:

The displayed weight will remain until it is switched again.

3.3 Top Manual Tree



3.4 Setup

F1 — Scale Configuration

F1.0 — Approval

0-no no approval

1-**OIML** approval according to OIML,

2-**ntEP** approval according to NTEP

F1.1—Scale Capacity & Increment Size

F1.1.1— Scale Calibration Unit

0- kg, 1- lb 2- None

F1.1.2— Increment Size

0.0001 ~ 20 (DFT: 0.001)

F1.1.3— Weighing Range

1 r — Single Range (DFT) **2 r — Double Range**

F1.1.4—Capacity or the 1st range capacity

When F1.1.3 = **1 r**, this value will be the capacity of scale, when F1.1.3=**2 r**, this value will be the 1st range capacity,30kg default.

F1.1.5—the 2nd range capacity

Only work when F1.1.3 =**2 r**, this value is 2nd range capacity.

F1.2— Calibration Configuration

F1.2.1—GEO Code

GEO 0...31 (DFT: GEO 0)

F1.2.2— Calibration Mode

0 - 2P — 2-Point-Calibration: Zero Point & End Point (DFT)

1 - 3P — 3-Point-Calibration: Zero Point & Middle Point & End Point

2 - 4P — 4-Point-Calibration

3 - 5P — 5-Point-Calibration

F1.3— Zero Functions

F1.3.1— Power Up Zero

OFF, 2%, 10%, 20% (DFT)

F1.3.2— Pushbutton Zero Range

OFF, 1% , 2%(DFT), 4% , 10% , 20%, 50%

Notice: when F1.0 = 1-OIML,this value is restricted to no more than 2%.

F1.3.3— Auto Zero Range

OFF,0.5d,1d, 2d, 3d(DFT), 4d, 5d,6d,7d,8d,9d

F1.3.4— Auto Zero Speed

OFF, 0.1d/Second, 0.3d/S, 0.5d/S, 1d/S, 1.3d/S, 1.5d/S(DFT),
2.0d/S, 2.5d/S, 3.0d/S, 3.5d/S, 4.0d/S, 4.5d/S, 5.0d/S

F1.3.5— Load Cell Creep Adjustment

OFF(DFT), 0.1d/Second, 0.2d/S, 0.3d/S, 0.4/S, 0.5d/S,

F1.4— Tare Function

F1.4.1— Auto Tare OFF (DFT) **ON**

F1.4.2— Auto Clear OFF(DFT) **ON**

F1.4.3— Tare Operation OFF – Always Disable Tare operation (DFT)

1 – Tare Interlock Enabled

2 – Tare Always Allowed

F1.4.4— Trigger Auto Tare Weight

F1.4.5— Trigger Auto Clear Weight

F1.5— Filter & Motion

F1.5.1— Filter : 0 (Light), 1, 2, 3, 4, 5, 6(DFT), 7, 8, 9, 10, 11, 12, 13, 14 (Deep)

F1.5.2— Motion Check Range : **0-OFF**, 1d/second, **3d/s (DFT)**, **5d/s**

F1.10— Default F1 Block

F2 — Scale Application

F2.1— F Key Assignment

0—X10 (DFT), 1—Over/Under, 2—Counting 3—Print Total

4—Unit Switch (Kg & Lb)

Note: if use Over/Under function, F2.4.1 must be set to OFF.

F2.2—Over/Under Function

F2.2.1— Display Mode: **0— Checking (DFT)**, **1— Classify**

F2.2.2— Target Input Mode: **0— Weighing (DFT)**, **1— Manual Input**

F2.2.3— Upper Tolerance : **0— No Checking(DFT)**, **>0 - Checking**

F2.2.4— Lower Tolerance : **0— No Checking(DFT)**, **>0 - Checking**

F2.3—APW (Only in Counting Mode)

OFF – Disable (DFT) ON - Enable

If APW is enabled, the piece target value will be adjusted according to the counting number goes up, this function can increase counting precision.

F2.4 Animal Weighing Function

F2.4.1 Animal Weighing Mode : OFF – Disable(DFT) ON - Enable

F2.4.2 Animal Weighing Sample Time

1second, 2s, 3s, 4s, 5s(DFT), 6s, 7s, 8s, 9s, 10s

F2.4.3 Animal Weight Display Hold Time

1second, 2s, 3s, 4s, 5s(DFT), 6s, 7s, 8s, 9s, 10s

F2.10—Default F2 Block

F3 — **Power Management**

F3.1— Auto Power Off

OFF, 5 minute, 10m, 30m(DFT), 60m

F3.2— Save Power

OFF – Disable

ON – Enable(DFT): Scale keep stable above 20 seconds, display will be blinking to save battery power.

F3.10—Default F3 Block

F4 — **COM1 Configuration(RS232)**

F4.1—COM1 Application Assignment

0—None(DFT) **1**— Continuous Output format 1 **2**— Demand Output,
3— Auto Print **4**— MODBUS-RTU **5**— Continuous Print Display Weight
6— MT SICS **7** - Continuous Output format 2(KINGBIRD)
8— Continuous Output format 3(YAOHUA)
9— Continuous Output format 4(YAOHUA)
10— Continuous Output format 5(YAOHUA)
11— BarCode Scanner In and Label Printer.
12— IND221 Print. **13**— IND221 Auto Print.
14—JM print format.
CNT99—WEBO Continuous Output format
16—MODBUS-RTU2 Integer format.

F4.1.1—MODBUS Node Address (DFT=01)

F4.2—COM1 Print Configuration

F4.2.1—Print Format **0**—1-Line (DFT) **1**—3-Line

F4.2.2—Print Data

0—Standard (DFT) **1**—Over/Under **2**—Counting
3—PQ20 Label Printer prints gross, tare and net weight.

- 4—PQ20 Label Printer prints gross, tare, net weight and barcode.
- 5—GoDEX Label Printer prints display weight or gross, tare and net weight.
- 6—GoDEX Label Printer prints display weight or gross, tare, net weight and logo picture.
- 7—GoDEX Label Printer prints logo picture and display weight and its barcode.
- 8—GoDEX Label Printer prints logo picture ,SN and display weight and their barcode.

F4.2.3—Line Break : **0 ~ 9** (DFT: **1**)

F4.2.4—Auto Print Threshold : **0 ~ Maximum Load** (DFT: **0**)

F4.2.5—Auto Print Reset Threshold : **0 ~ Maximum Load** (DFT: **0**)

F4.2.6—Start Auto Print Delay : **0~99x0.1s** (DFT: 0.5s)

F4.2.7—Auto Print Minimum Threshold : **0~99d** (DFT: 5d)

F4.3—COM1 Serial Port Configuration

F4.3.1—Baud Rate: **1200,2400,4800,9600** (DFT)

F4.3.2—Data Size & Parity

0—8,n,1 (8 data bit, no parity, 1 stop bit. DFT)

1—7,odd,1(7 data bit, ODD parity, 1 stop bit)

2—7,EUn,1 (7 data bit, EVEN parity, 1 stop bit)

F4.3.3—Interface : **0—RS232**

F4.3.4— Send Print Direction Command

0—Disable 1- Right to Left 2 – Left to Right

F4.4—Print Totalization: **OFF—Disable** ON—Enable

F4.10—Default F4 Block

F5—I/O Assignment (Optional)

F5.1—Input Assignment

0—None (DFT)

1—ZERO

2—TARE/CLEAR)

3—PRINT

4—Clear Print Flag

F5.2—Output Assignment

0— Out1: Under, Out2 : OK, Out3 : Over (DFT)

1— Out1: Print Triggered Bit

2— all three out are controlled by Modbus-RTU

F5.10—Default F5 Block

F6 — COM2 Configuration (RS485)

F6.1—COM2 Application Assignment

0—None(DFT) **1**— Continuous Output format 1 **2**—Demand Output,
3—Auto Print **4**—MODBUS-RTU **5**— Continuous Print Display Weight
6— MT SICS **7** - Continuous Output format 2(KINGBIRD)
8— Continuous Output format 3 **9**— Continuous Output format 4
10— Continuous Output format 5
11— BarCode Scanner In and Label Printer.
12— IND221 Print. **13**— IND221 Auto Print.
14—JM print format.
CNT99—WEBO Continuous Output format
16—MODBUS-RTU2 Integer format.

F6.1.1—MODBUS Node Address (DFT=01)

F6.2—COM2 Print Configuration

F6.2.1—Print Format **0**—1-Line (DFT) **1**—3-Line

F6.2.2—Print Data

0—Standard (DFT) **1**—Over/Under **2**—Counting
3—PQ20 Label Printer prints gross, tare and net weight.
4—PQ20 Label Printer prints gross, tare, net weight and barcode.
5—GoDEX Label Printer prints display weight or gross, tare and net weight.
6—GoDEX Label Printer prints display weight or gross, tare, net weight and logo picture.
7—GoDEX Label Printer prints logo picture and display weight and its barcode.
8—GoDEX Label Printer prints logo picture ,SN and display weight and their barcode.

F6.2.3—Line Break **:0 ~ 9 (DFT: 1)**

F6.3—COM2 Serial Port Configuration

F6.3.1—Baud Rate: **1200,2400,4800,9600 (DFT)**

F6.3.2—Data Size & Parity

0—8,n,1 (8 data bit, no parity,1 stop bit. DFT)
1—7,odd,1(7 data bit, ODD parity, 1 stop bit)
2—7,EUE,n,1 (7 data bit, EVEN parity, 1 stop bit)

F6.3.3—Interface : **1—RS485**

F6.3.4— Send Print Direction Command

0 — Disable 1- Right to Left 2 — Left to Right

F6.4—Print Totalization: **OFF— Disable** ON—Enable

F6.10—Default F6 Block

F7 — **Bluetooth**

F7.1—Application Assignment

0—None(DFT) **1—** Continuous Output format 1 **2—**Demand Output,

3—Auto Print **4 —** Continuous Print Display Weight

5 — Continuous Output format 3 **6 —** Continuous Output format 4

7 — Continuous Output format 5

8 — BarCode Scanner In and Label Printer.

F9 — **Network Configuration**

F 9.1 IP Address

Default: 192.168.18.1

F 9.2 Submask

Default: 255.255.255.0

F 9.3 Gateway

Default: 192.168.0.1

F 9.4 Continue Output Mode

0 — Disable (DFT)

1 — TCP1, 17 bytes ,no check byte, support command C、 T、 Z

2 — TCP2, 18 bytes include check byte, support command C、 T、 Z

3 — UDP1,17 bytes ,no check byte, support command C、 T、 Z

4 — UDP2,18 bytes include check byte, support command C、 T、 Z

F 9.5 Command Input/Output Mode

0 — Disable (DFT)

1 — TCP1, support command C,P,T,Z, 1-line print display weight

2 — TCP2, support command C,P,T,Z, 1-line print gross weight, tare weight, net weight

3 — UDP1, support command C,P,T,Z, 1-line print display weight

4 — UDP2, support command C,P,T,Z, 1-line print gross weight, tare weight, net weight

5 — BARC, in WiFi mode, output barcode and weight,must be used together with barcode scanner.

Notice: if use F9.5 1/2/3/4/5 function, have to set F9.4 = 0-Disable.

Another,for 1,2,3,4, auto print function is supported

F9.6 Change WiFi work mode

Default: 0,when from 0 to 1, WiFi work mode be changed to AP mode.

F9.7 UDP Target Address

Default: 192.168.18.201

F9.8 TCP/UDP Continue output frequency

Default : 20, Range: 1 -50, if set to 50, 50 times output per second.

F9.9 TCP/UDP Port

Default: 1025, Range: 1024-65535.

The indicator listens this port when working in TCP mode,. But in UDP mode, the local port and remote port both are this port, so it can print output data from this port to the UDP Target Address, and receive command data from it. And also the host whose IP is the UDP Target Address must send command to only this port, not other port,otherwise,the indicator cannot receive the command data. .

F10—Maintenance

F10.1—Load Cell I/F Testing

F10.2—Key Testing

Display: “PrESS, Press below keys in turn : ZERO, F, Clear, Print, Tare. “ZERO”, “F”, “CLEAR”, “PRINT”, “TARE” will be displayed in turn, and then exit key testing page after Tare key pressed in 1 second

F10.3—Relay In state

0 – means relay in state is OFF, 1 – means ON

F10.4—Relay out testing

000 – from right to left, means OUT1 ,OUT2,OUT3 state. Change the number to 1,to set the relay out state to ON, change the number to 0, to set the relay out state to OFF.

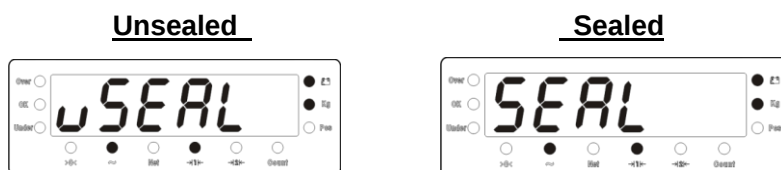
F10.5—date

Can look the current date and change it

F10.6—time

Can look the current time and change it

F10.F— W&M Sealing

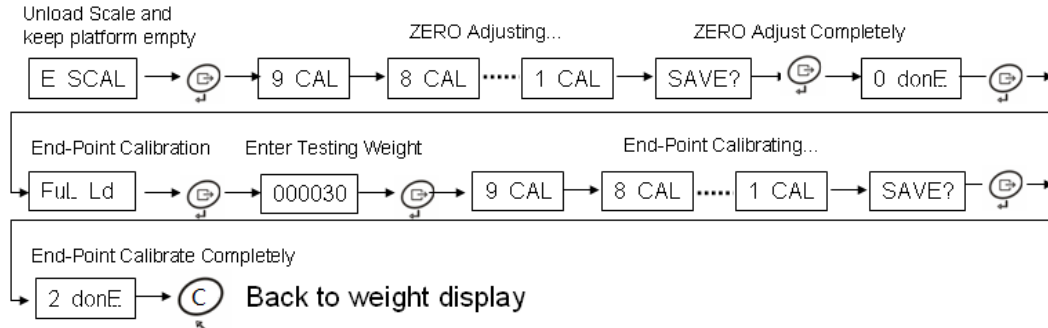


Press W&M seal SWITCH and hold 1 second to change W&M seal status from unseal to seal or from seal to unseal. In seal, F1.1 and F1.2 blocks will not be allowed to do any

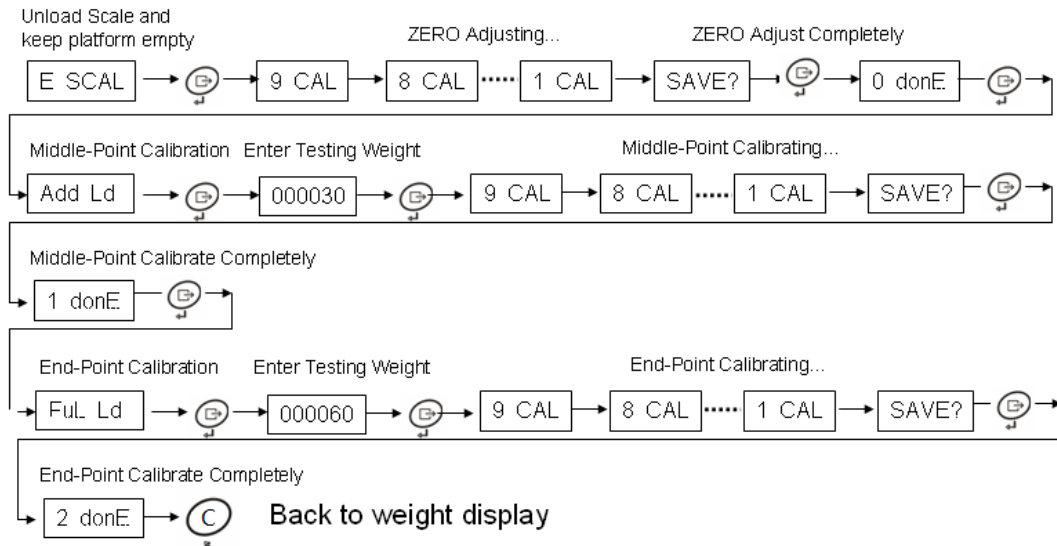
change.

3.5 Calibration

2-Point Calibration:



3-Point Calibration:



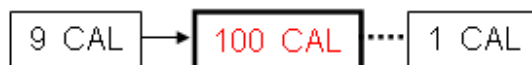
4-Point Calibration:

Referring 3-point Calibration, make zero-point calibration first, then following middle-1, middle-2, middle-3(End Point) calibration.

5-Point Calibration:

Referring 3-point Calibration, make zero-point calibration first, then following middle-1, middle-2, middle-3, middle-4 (End Point) calibration.

ERROR: Calibration in Motion



ERROR: Calibration Fail



4 COM and TCP/IP application

This chapter is the description of COM application, apply to RS232 and RS485 port. Some parameters are F4.X.X for RS232, but for RS485, must be F6.X.X.

The data format 1 is supported by COM1, COM2, Bluetooth, TCP, UDP and Wifi.

The data format 2 to 5 is supported by COM1, COM2 and Bluetooth.

4.1 Continuous Output

Format 1:

S	S	S	S	XXXXXX	XXXXXX	C	C
T	W	W	W			R	H
X	A	B	C				K
A	B	C	D	E	F	G	H

※ **Node:**

A – STX: ASCII 02H

B – SWA: Status A

C – SWB: Status B

D – SWC: Status C

E – Display Weight, 6 digits without decimal

F – Tare Weight, 6 digits without decimal

G – CR: ASCII 0DH

H – CHK: Checksum, CHK is used to detect errors in the transmission of data.

Checksum is defined as the 2's complement of the seven low order bits of the binary sum of all characters preceding the checksum character, including the <STX> and <CR> characters.

SWA: Status A					
Bit					
0		Bit2	Bit1	Bit0	Decimal Point Location
1		0	0	1	XXXXX0
2		0	1	0	XXXXXX
		0	1	1	XXXXX.X
		1	0	0	XXXX.XX
		1	0	1	XXX.XXX
		1	1	0	XX.XXXX
3		Bit4	Bit3	Build Code	
4		0	1	X1	
		1	0	X2	
		1	1	X5	
5	Always 1				
6	Always 0				

7	EVEN/ODD Parity bit
---	---------------------

SWB: Status B	
Bit	
0	0 – Gross, 1 – Net
1	Sign, Positive = 0, Negative = 1
2	Out of Range = 1 (Over capacity or Under Zero)
3	Motion = 1, Stable = 0
4	0 – lb, 1 – kg
5	Always 1
6	0 – Normal, 1 – Power ON
7	EVEN/ODD Parity bit

SWC: Status C	
Bit	
0	Always 0
1	Always 0
2	Always 0
3	Always 0
4	0 – X10 OFF, 1- X10 ON
5	Always 1
6	Always 0
7	EVEN/ODD Parity bit

Format 2:

This format is same as format 1 except SWA as follow.

SWA: Status A					
Bit					
0		Bit2	Bit1	Bit0	Decimal Point Location
1		0	0	1	XXXXX0
2		0	1	0	XXXXXX
		0	1	1	XXXXX.X
		1	0	0	XXXX.XX
		1	0	1	XXX.XXX
		1	1	0	XX.XXXX
3		Bit4	Bit3	Build Code	
4		0	1	X1	
		1	0	X2	
		1	1	X5	
5	Always 1				
6	Always 0				
7	EVEN/ODD Parity bit				

Format 3(YAOHUA):

Out data format is “= weight(decimal point included)”,ASCII code.

First char is the lower char , last char is the higher char. There is 6 char ,not include decimal point, if not enough, fill it to 6 char by ‘0’ .

Such as:

Display weight is -500.00kg, the output ASCII is “=00.005-”;

Display weight is 12.04kg,the output ASCII is “=40.2100”

Format 4(YAOHUA):

Output data is display weight.

When gross:

Greater than 0: “ww000.000kg”; less than 0: “ww-00.000kg”

When Net:

Greater than 0: “wn000.000kg”; less than 0: “wn-00.000kg”

Format 5(YAOHUA):

This format is same as format3, but only output data when the scale weight is stable.

4.2 Demand Input / Output

Both RS232 & RS485 can be configured continuous output or demand input/output, below commands are supported.

Demand Input		
Demand	Description	Response & output
C	Clear Tare	None
T	Tare Scale	None
P	Print	Print data out from serial port
Z	Zero Scale	None

4.3 Print

4.3.1 Standard Pound List Without RTC

F4.1=2	F4.1=2	F4.1=2	F4.1=2
F4.2.1=0	F4.2.1=1	F4.2.1=0	F4.2.1=1
F4.2.2=0	F4.2.2=0	F4.2.2=0	F4.2.2=0
F2.4.1=OFF	F2.4.1=OFF	F2.4.1=ON	F2.4.1=ON
F4.4 = ON	F4.4 = ON	F4.4 = ON	F4.4 = ON

(Set F2.1=3, Press F key to print total weight)

POUND LIST NO. WEIGHT ----- 0001 10.5 KG N 0002 10.3 KG N 0003 9.4 KG N ----- COUNT: 0003 TOTWT: 30.2 KG	POUND LIST NO. 0001 GROSS 11.6 KG TARE 1.1 KG NET 10.5 KG POUND LIST NO. 0002 GROSS 11.2 KG TARE 1.1 KG NET 10.1 KG ----- COUNT: 0002 TOTWT: 20.6 KG	ANIMAL POUND NO. NET ----- 0001 10.5 KG N 0002 10.3 KG N 0003 9.4 KG N ----- COUNT: 0003 TOTWT: 30.2 KG	ANIMAL POUND NO. 0001 GROSS 11.6 KG TARE 1.1 KG NET 10.5 KG ANIMAL POUND NO. 0002 GROSS 11.2 KG TARE 1.1 KG NET 10.1 KG ----- COUNT: 0002 TOTWT: 20.6KG
--	--	---	---

4.3.2 Standard Pound List With RTC

F4.1=2

F4.2.1=0

F4.2.2=0

F2.4.1=OFF

F4.4 = ON

F4.1=2

F4.2.1=1

F4.2.2=0

F2.4.1=OFF

F4.4 = ON

F4.1=2

F4.2.1=0

F4.2.2=0

F2.4.1=ON

F4.4 = ON

F4.1=2

F4.2.1=1

F4.2.2=0

F2.4.1=ON

F4.4 = ON

POUND LIST		
Date	2014/01/01	
Time	NO.	Net Wt.

08:10:05	0001	10.5 kg
08:15:16	0002	10.3 kg
08:16:18	0003	9.4 kg

COUNT	3	
TOTWT.	30.2 kg	

POUND LIST	
Date	2014/01/01
Time	08:10:05
NO.	0001
Gross	11.6 kg
Tare	1.1 kg
Net	10.5 kg
POUND LIST	
Date	2014/01/01
Time	08:15:13
NO.	0002
Gross	11.2 kg
Tare	1.1 kg
Net	10.1 kg

COUNT	2
TOTWT	20.6kg

ANIMAL POUND		
Date	2014/01/01	
Time	NO.	Net Wt.

08:10:05	0001	10.5 kg
08:15:16	0002	10.3 kg
08:16:18	0003	9.4 kg

COUNT	3	
TOTWT	30.2 kg	

ANIMAL POUND	
Date	2014/01/01
Time	08:10:05
NO.	0001
Gross	11.6 kg
Tare	1.1 kg
Net	10.5 kg
ANIMAL POUND	
Date	2014/01/01
Time	08:15:06
NO	0002
Gross	11.2 kg
Tare	1.1 kg
Net	10.1 kg

COUNT	2
TOTWT	20.6kg

4.3.3 Over/Under Pound List

F4.1=2

F2.1=1

F4.2.1=0

F4.2.2=1

F4.4 = ON

F4.1=2

F2.1=1

F4.2.1=1

F4.2.2=1

F4.4 = ON

CHECKING POUND			
NO.	WEIGHT		

0001	10.5 KG	N	OVER
0002	10.3 KG	N	OK
0003	9.4	KG N	UNDER

COUNT:	0003		
TOTWT:	30.2 KG		

CHECKING POUND	
NO.	0001
GROSS	11.6 KG
TARE	1.1 KG
NET	10.5 KG OVER
CHECKING POUND	
NO.	0002
GROSS	11.2 KG
TARE	1.1 KG
NET	10.1 KG OK

COUNT:	0002
TOTWT:	20.6 KG

4.3.4 Counting Pound List

F2.1= 2

F2.1= 2

F4.2.1=0

F4.2.1=1

F4.2.2=2

F4.2.2=2

10.5 KG N	21 PCS
10.3 KG N	20 PCS
9.4 KG N	19 PCS

COUNTING POUND	
GROSS	11.6 KG
TARE	1.1 KG
NET	10.5 KG
PCSWT.	0.5KG
PCS	000021 PCS

4.4 MODBUS-RTU Floating format

MODBUS-RTU			
Address	Description		R/W
40001	0	0 = Gross, 1 = Net	R
	1	Sign, Positive = 0, Negative = 1	
	2	Out of Range = 1 (Over capacity or Under Zero)	
	3	Motion = 1, Stable = 0	
	4	Reserved	
	5	Reserved	
	6	Reserved	
	7	0 – No Print, 1 – Print Completely	
	8	0-lb , 1-kg	
	9-14	Reserved	
	15	0 – Data not OK, 1 – Data OK	
40002/3	Display Weight, 32-bit floating data		R
40004/5	Print Total Weight, 32-bit floating data		R
40006	Print Total Counter,		
40007	Bit0 ~ Bit 6 – Reserved Bit 7 – 0->1 Trigger to Clear bit 40001.7 Bit 8 – Reserved Bit 9 – Reserved Bit 10 –0->1 Trigger to clear totalization (Weight & Counter) Bit 11 –0->1 Trigger to Zero Scale Bit 12 –0->1 Trigger to Tare Scale Bit 13 –0->1 Trigger to Clear Scale Bit 14 –0->1 Trigger to do digital tare Bit 15 – Reserved		R/W

4.5 MODBUS-RTU Integer format

MODBUS-RTU		
Address	Description	R/W
40001	0 0 = Gross, 1 = Net	R
	1 Sign, Positive = 0, Negative = 1	
	2 Out of Range = 1 (Over capacity or Under Zero)	
	3 Motion = 1, Stable = 0	
	4 Reserved	
	5 Reserved	
	6 Reserved	
	7 0 – No Print, 1 – Print Completely	
	8 0-lb , 1-kg	
	9-14 Reserved	
	15 0 – Data not OK, 1 – Data OK	
40002	Weight times(1\10\100\1000)	R
40003	Display Weight, 16-bit integer data(Divide by 40002 to get the actual weight)	
40004/5	Print Total Weight, 32-bit Integer data(Divide by 40002 to get the actual weight)	R
40006	Print Total Counter,	
40007	Bit0 ~ Bit 6 – Reserved Bit 7 – 0->1 Trigger to Clear bit 40001.7 Bit 8 – Reserved Bit 9 – Reserved Bit 10 –0->1 Trigger to clear totalization (Weight & Counter) Bit 11 –0->1 Trigger to Zero Scale Bit 12 –0->1 Trigger to Tare Scale Bit 13 –0->1 Trigger to Clear Scale Bit 14 –0->1 Trigger to do digital tare Bit 15 – Reserved	R/W

4.6 Compatible to MT SICS Commands

The weighing terminal supports the MT-SICS (METTLER TOLEDO Standard Interface Command Set) command set. With SICS commands, it is possible to configure, query and operate the terminal from a PC.

	Command	Meaning
LEVEL 0	@	Reset the scale
	I0	Inquiry of all available SICS commands
	I1	Inquiry of SICS level and SICS version
	I2	Inquiry of scale data
	I3	Inquiry of scale software version
	I4	Inquiry of serial number
	S	Send stable weight value
	SI	Send weight value immediately
	SIR	Send weight value immediately and repeatedly
	Z	Zero the scale
	ZI	Zero immediately
LEVEL 1	T	Tare
	TAC	Clear tare
	TI	Tare immediately

For Example:

T CR LF : Tare scale and go to zero net weight display

TAC CR LF: Clear tare and back to gross weight display

Z CR LF: Zero scale and go to zero gross weight display.

5 Ethernet Application

Ethernet function is optional, please check the Selection Guide at start part.

5.1 Continue output mode

In this mode ,as a TCP server, the scale listen the port set in F9.9,and send weighing data to the connecting client continually, receive command data from the client also. If work in UDP mode, the scale send weighing data to the IP address set in F9.7 and the port set in F9.9 by UDP packet, and only receive command from the port set in F9.9.

The weighing data format is same to the Serial Port output, see 4.1 for details.

Supported command characters and their definitions, see 5.2.

5.2 Command mode

Command mode is supported in TCP and UDP, See the table below for command definitions.

Command Definition	
Command	Function
C	Clear Tare
P	Print
T	Tare
Z	Zero

6 WIFI Application

WIFI Function is optional, please check the Selection Guide at start part.

WIFI Application has two work mode, AP mode and STA mode.

AP: as a wireless access point, is the center point in the LAN, like an wireless router, other terminal can connect the AP.

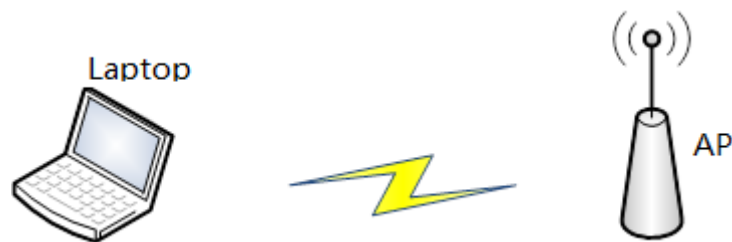
STA: as a wireless station, is a terminal. like a laptop or cellphone.

Work in two modes ,the weighing data format for continue output and supported command are same to the Ethernet Application, just different networking mode.

The AP mode is defaulted.

6.1 AP Mode

Work in AP mode, networking mode as shown below, apply to point to point communication.



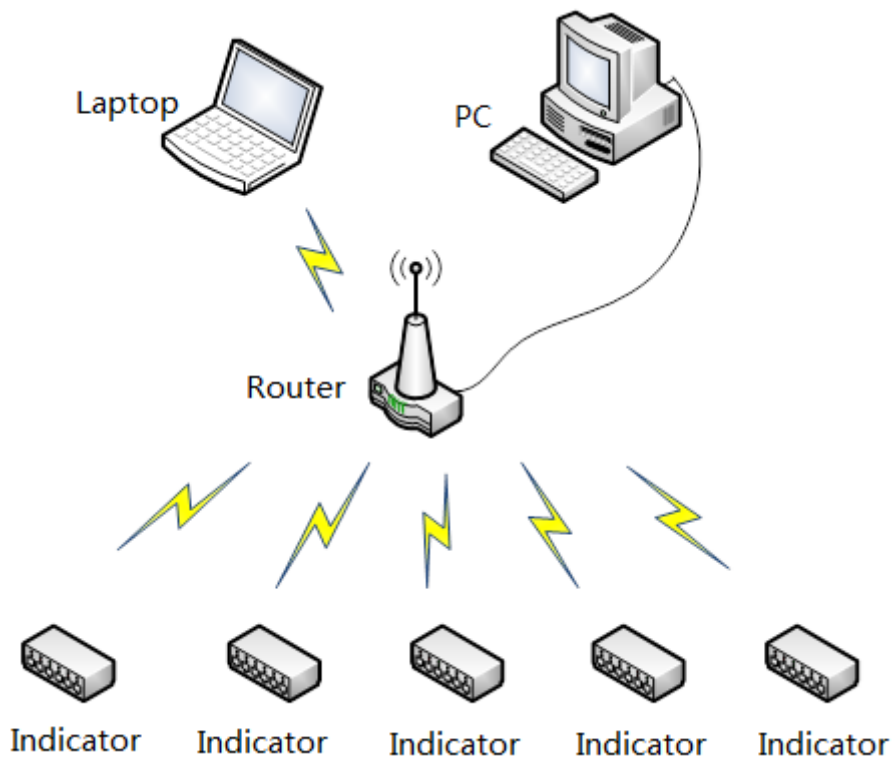
In this mode ,as a wireless hotspot, the terminal like laptop can connect the scale, and then ,laptop can communicate with the indicator by WIFI. The parameter is same to the Ethernet Application Mode.

The wireless hotspot named “ID226” is created when the indicator power on, the password is “123456789” . When using ,first, set the parameter in F9, second ,the laptop and other wireless terminal is set to automatically obtain IP address mode, and then connect the hotspot “ID226” ,when succeeded, it can be used easily like Ethernet Application. The details are provided in the part of network application test.

6.2 STA Mode

Work in STA mode, networking mode as shown below, apply to multi-terminal connect

communication.



In this mode, need to set parameter by Web page, Steps are as follows.

(1)First, Connect the wireless hotspot called “ID226”, the password is “123456789”. Second, Input “<http://192.168.18.1/>” in the IE browser address bar and enter, then input the user name and the password ,both “admin”, then click “ok” button.

(2)Connect Router. The web page is shown below.

Working Mode Configuration

You may configure the Uart-WIFI module wifi mode and data transfer mode.

☐ **AP Mode:**
Access Point

☒ **STA Mode:**
Station Mode

Data Transfer Mode

Transparent Mode ▼

Apply

Cancel

In the picture above, change the working mode to STA Mode, and then switch to the STA Interface Setting tab.

STA Interface Setting

You could configure STA interface parameters here.

STA Interface Parameters	
AP1's SSID	webo Search...
MAC Address1 (Optional)	
Security Mode1	WPA2PSK ▼
Encryption Type1	TKIP ▼
Pass Phrase1	85506673
AP2's SSID	USR-WIFI232-AP2 Search...
MAC Address2 (Optional)	
Security Mode2	OPEN ▼
Encryption Type2	NONE ▼
AP3's SSID	USR-WIFI232-AP3 Search...
MAC Address3 (Optional)	
Security Mode3	OPEN ▼
Encryption Type3	NONE ▼
Signal threshold	100 % Note: The signal is less than this value, Switching network,If the value is 100,it's not switching network!

Apply Cancel

Click the “Search” button in the picture above, the wireless network list window will be open.

Site Survey							
	SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
☐	CZ3bears	8a:25:93:8f:a4:ce	76%	11	AES	WPA2PSK	Infrastructure
☒	webo	90:94:e4:c6:f1:c4	55%	1	TKIP	WPA2PSK	Infrastructure
☐	TP-LINK_E54C	14:75:90:f2:e5:4c	39%	6	NONE	OPEN	Infrastructure
☐	CZ3bears_1	44:97:5a:a5:34:18	39%	6	AES	WPA2PSK	Infrastructure
☐	HP100-3105b6	02:20:f0:5f:29:5f	24%	6	NONE	OPEN	Ad Hoc
☐	ChinaNet-7mtp	48:28:2f:14:51:8b	20%	7	AES	WPAPSK	Infrastructure
☐	Meeting	50:bd:5f:21:1b:b8	10%	1	AES	WPA2PSK	Infrastructure
☐	ChinaNet-sDz2	38:46:08:3b:a8:ac	10%	1	AES	WPAPSK	Infrastructure
☐	TP-LINK_DAD0	fc:d7:33:ef:da:d0	0%	1	NONE	OPEN	Infrastructure
☐	sage	8c:21:0a:58:86:7a	0%	6	AES	WPA2PSK	Infrastructure
Apply <input checked="" type="button" value="Refresh"/>							

Select the hotspot by name, and click the “Apply” button. You can click the “Refresh” button to refresh the network list.

(3)Set IP Address. On the STA Interface Setting tab page, change the “WAN Connection Type” to “STATIC(fixed IP)” , and set IP Address“192.168.0.127” ,Subnet Mask “255.255.255.0” , Default Gateway “192.168.0.1” ,then click “Apply” button.

Notice: this IP address is used for connecting the router, so it need to be same to the router network, at the same time, it cannot be same to the LAN IP address(set at F9.1), otherwise it will not work properly! Please remember this IP address, weighing data will be sent from it.

WAN Connection Type: STATIC(fixed IP) ▼

Static Mode	
IP Address	192.168.0.127
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1
DNS	

The LAN IP address mentioned in the above can be found on the AP Interface Setting tab page.

AP Interface Setting

AP Interface Setting such as SSID, Security...

Wireless Network	
Network Mode	11b/g/n mixed mode ▼
Network Name(SSID)	ID226 Hidden ☐
BSSID	AC:CF:23:5D:16:20
Frequency (Channel)	AutoSelect ▼

Apply

Cancel

ID226	
Security Mode	WPA-PSK ▼
WPA	
WPA Algorithms	☐ TKIP ☒ AES ☐ TKIPAES
Pass Phrase	123456789

Apply

Cancel

LAN Setup	
IP Address(Default DHCP Gateway)	192.168.18.1
Subnet Mask	255.255.255.0
DHCP Type	Server ▼

Apply

Cancel

(4)Restart the indicator. When completing these steps, please restart the indicator.

The indicator will connect the router automatically.

Connecting a laptop to the router, and on the same network, indicator can be visited on the unique IP address (192.168.0.127) for weighing data and command data. Please refer network application test part for more details.

7 Network Application Test

7.1 TCP Test

4 TCP mode are supported:

F9.4 Continue Output Mode

- 1 – TCP1, 17 bytes ,no check byte, support command C、 T、 Z
- 2 – TCP2, 18 bytes include check byte, support command C、 T、 Z

F9.5 Command Input Mode

- 1 – TCP1, support command C,P,T,Z, 1-line print display weight
- 2 – TCP2, support command C,P,T,Z, 1-line print gross weight, tare weight, net weight

Notice: if use F9.5 1/2/3/4/5 function, have to set F9.4 = 0-Disable .

Working in the 4 mode above, as a TCP Server, listen the port set in F9.9, the default port is 1025,the test steps are as follows.

The default parameters in F9 fuction are as follows.

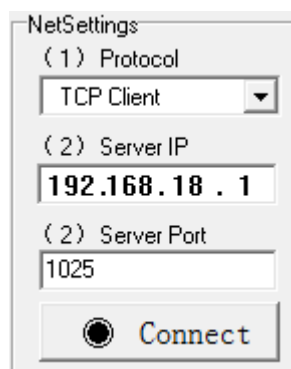
F9.1 IP Address: 192.168.18.1

F9.2 NetMask: 255.255.255.0

F9.3 Gateway: 192.168.0.1

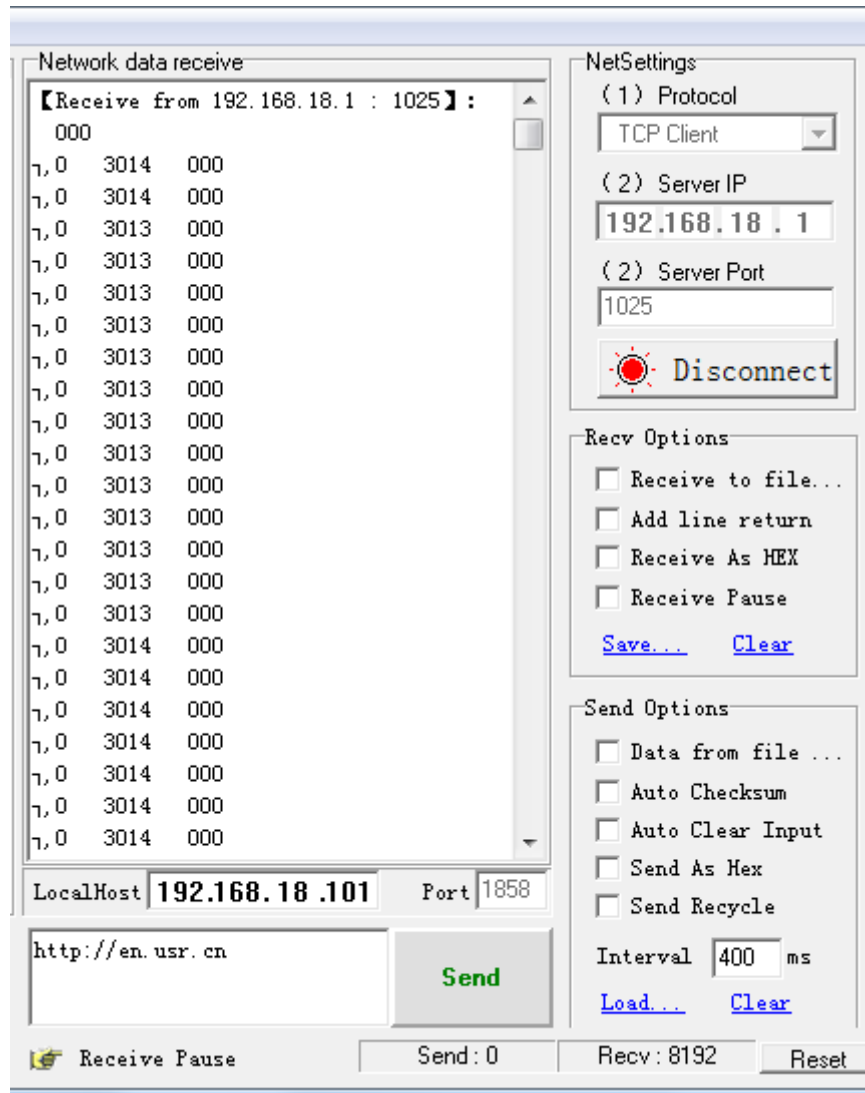
(1)set F9.4 to 1 or 2, and then set laptop or PC IP address to “192.168.18.xxx” ,need to be same network to F9.1,but different IP address. Such as “192.168.18.11” . If you test TCP on WIFI application, you don't need to set the IP address of your computer.

(2)open the net test software, set the protocol to “TCP Client” , “Server IP” 192.168.18.11, “Server Port” 1025.



(3)Click “Connect” , connection is established. Weighing data is received in the window. Send character “T” , “C” , “Z” to the indicator, it will implement Tare, Clear

Tare, Zero respectively.



7.2 UDP Test

Four UDP modes are supported as follow.

F9.4 Continue Output Mode:

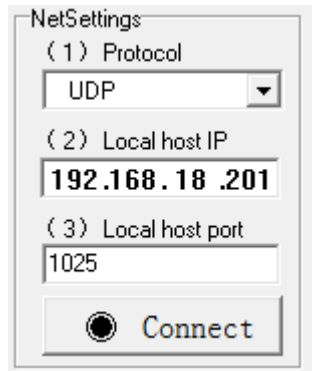
- 3 – UDP1, 17 bytes, no check byte, support command C、T、Z
- 4 – UDP2, 18 bytes include check byte, support command C、T、Z

F9.5 Command Input/Output Mode:

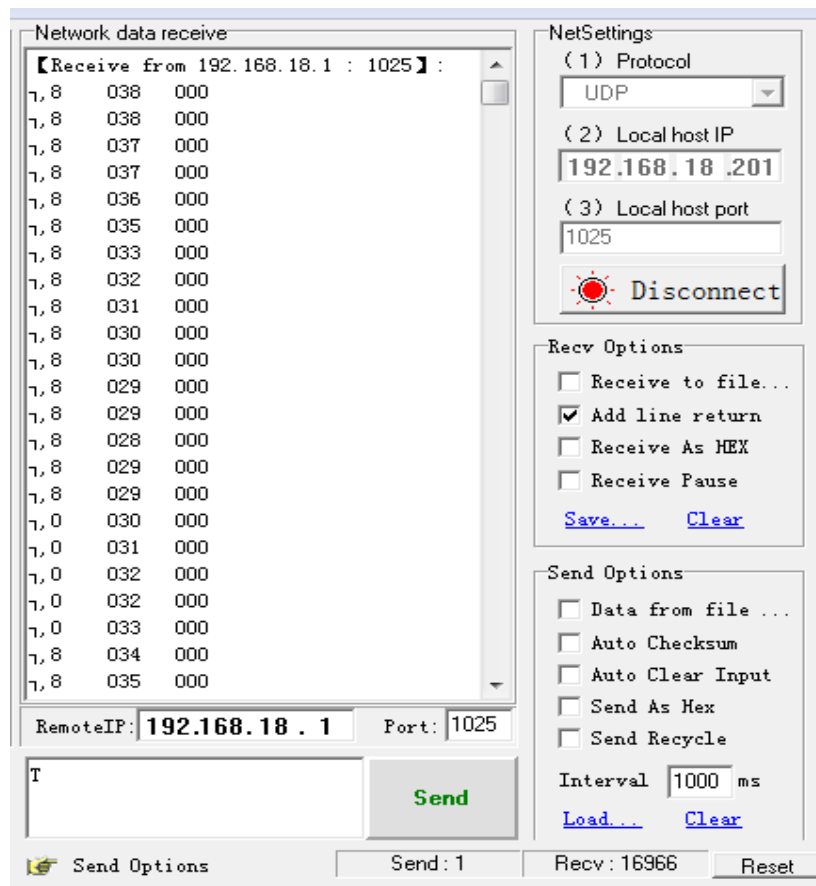
- 3 – UDP1, support command C,P,T,Z, 1-line print display weight
- 4 – UDP2, support command C,P,T,Z, 1-line print gross weight, tare weight, net weight

(1) set F9.4 to 3 or 4, and then set laptop or PC IP address to "192.168.18.201", this IP address is same to F9.7(UDP Target Address).

(2) open the net test software, set “Protocol” to UDP, the “Local host IP” is same to F9.7, the “Local host port” is same to F9.9.



(3) Click “Connect”, connection is established. Weighing data is received in the window. Send character “T”, “C”, “Z” to the indicator, it will implement Tare, Clear Tare, Zero respectively.



Notice: In WIFI application, if you work in STA mode, involved in the above steps, the remote host IP address is not the F9.1 address of the instrument's IP, but the static IP address set in Section 6.2 (192.168.0.127).

8 Barcode Scanner and Label Printer Application

8.1 Barcode Scanner Application

ID226 support both barcode scanner and label printer at the same time. Barcode support up to 20 characters.

The barcode format : barcode+0x0D/0x0A . such as: the hex string

“31 32 33 34 35 36 37 38 39 0D” means the barcode is “123456789”.

F4.1 is configured as 11 to support barcode scanner input and label print function

Indicator get barcode data from serial port RXD, and then automatically print barcode, weight data, date and time to label. Or press print key or external print command to trigger print label. Refer below labels supported.

Set F9.4=0.F9.5=5 to support that output weight data through Wifi/ETH

Or Set F7.1=8 to support that output weight data through Bluetooth

The output data(display weight) format is;

Sign	Weight data	Unit	Connect sign	SN	End
1 byte	6/7 byte	2 byte	1 byte	N byte	2 byte

e.g.:+ 2.00kg+12345678910, means display weight 2.00kg,SN is 12345678910

The output data(net weight,gross weight,tare weight) format is:

Net sign	Net data	Gross sign	Gross data	Tare sign	Tare data	Unit	Connect sign	SN	End
1 byte	6/7 byte	1 byte	6/7 byte	1 byte	6/7 byte	2 byte	1 byte	N byte	2 byte

e.g.: + 2.00+ 2.00+ 0.00kg+12345678910, means net weight is 2.00, gross weight is 2.00,tare weight is 0.00, the unit is kg, SN is 12345678910

format explain:

Sign: '+' or '-'

Data: weight data, if no dot, 6 bytes, if have dot ,7 bytes, if not enough, fill '0' from left;

Unit: "kg" or "lb"

Connect sign: '+'

SN: barcode, from serial scanner, or Wifi, Bluetooth input;

End: Hex byte, 0x0D 0x0A

8.2 Label Printer Application

As below labels are supported.

(1) F4.2.2=3, PQ20 printer print gross weight, tare weight and net weight.

Gross:100.5 kg		Label Size: 100mm x 60mm
	G 100.5 kg	
Tare:10.5 kg		
	T 10.5kg	
Net:90.0 kg		
	N 90.0 kg	

(2) F4.2.2=4, PQ20 printer print gross weight, tare weight, net weight and S/N(Serial number get from barcode scanner).

S/N:		
	1234567890123	
Gross:100.5 kg		Label Size: 100mm x 60mm
	G 100.5 kg	
Tare:10.5 kg		
	T 10.5kg	
Net:90.0 kg		
	N 90.0 kg	

(2) F4.2.2=5, GoDEX Label printer, F4.2.1=0, 1-line print display weight.

2010-11-12 13:14:15		
300.00 kg	300.00 kg	Label Size: 60mm x 40mm

(4)F4.2.2=5, GoDEX Label printer, F4.2.1=1, 3-line print gross weight, tare weight, and net weight

G.W.: 300.00 kg	2010-11-12 13:14:15	Label Size: 60mm x 40mm
T.W.: 100.00 kg	G.W.: 300.00 kg	
N.W.: 200.00 kg	T.W.: 100.00 kg	
	N.W.: 200.00 kg	

(5)F4.2.2=6, GoDEX Label printer, F4.2.1=0, 1-line print display weight and logo picture

ABCDEFGG	ABCDEFGG	Label Size: 60mm x 40mm
300.00 kg	2010-11-12 13:14:15 300.00 kg	

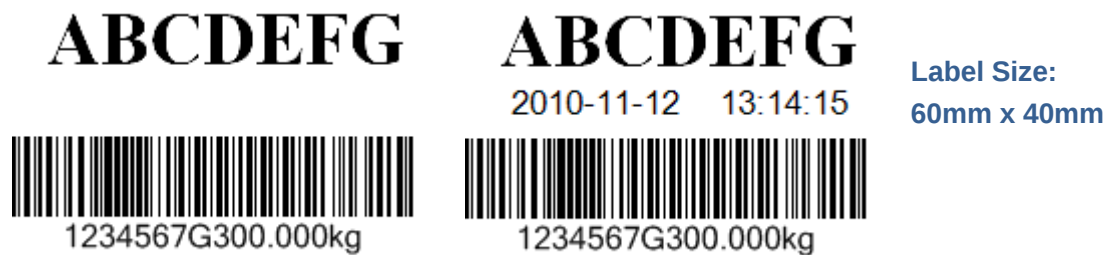
(6)F4.2.2=6, GoDEX Label printer, F4.2.1=1, 3-line print gross weight, tare weight, net weight and logo picture

ABCDEFGG	ABCDEFGG	Label Size: 60mm x 40mm
G.W.: 300.00 kg	2010-11-12 13:14:15	
T.W.: 100.00 kg	G.W.: 300.00 kg	
N.W.: 200.00 kg	T.W.: 100.00 kg	
	N.W.: 200.00 kg	

(7) F4.2.2=7, GoDEX Label printer, print logo picture, display weight ,and its barcode.



(8) F4.2.2=8, GoDEX Label printer, print logo picture, SN and display weight ,and their barcode.

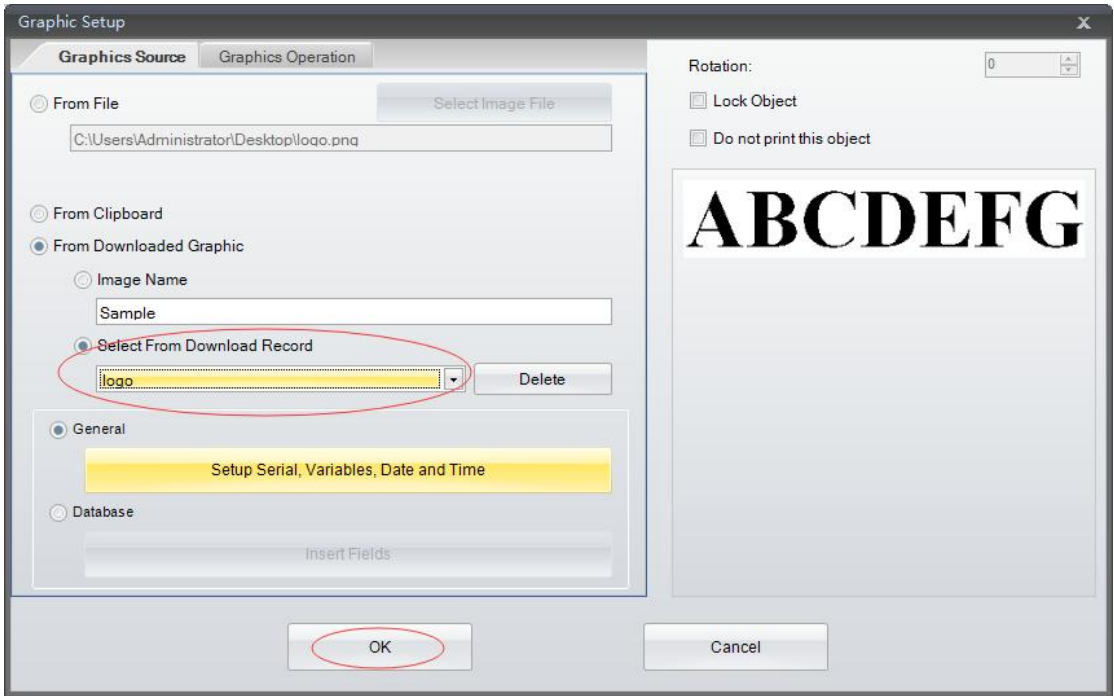
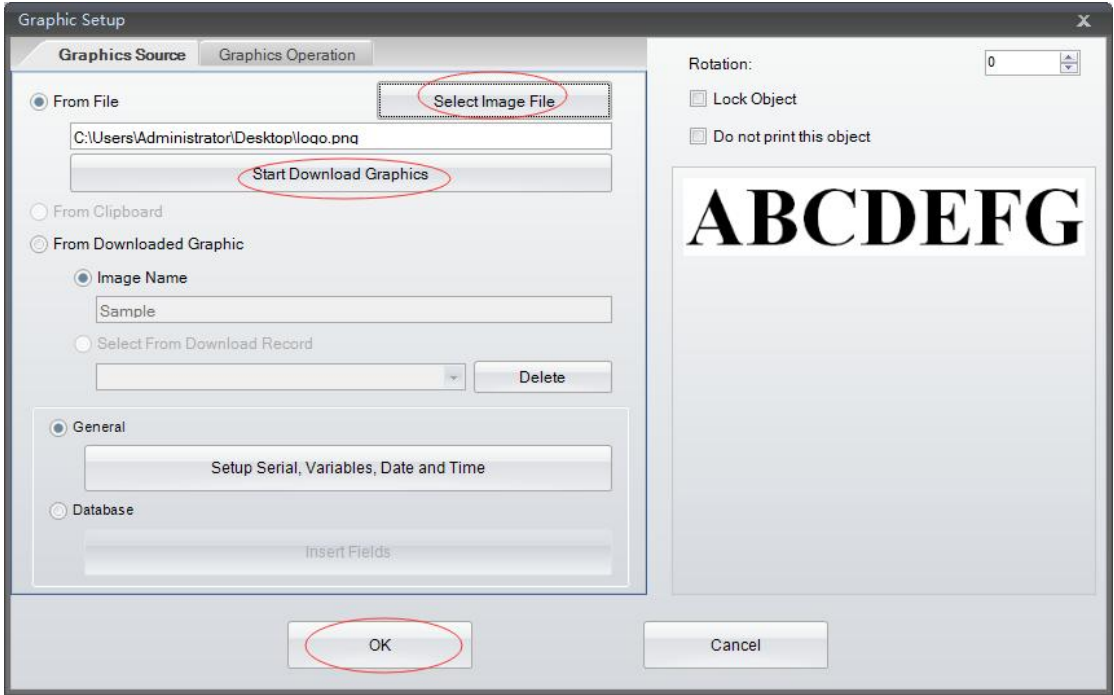


How to download logo picture to GoDEX Label printer?

If F4.2.2=6, logo picture should be download into printer. the logo picture must be named as "logo.png", and it's size must be 360 * 70 pixel.

Open "GoLabel" software tool to download the logo picture, this software tool can be found in the Label Printer CD, following below steps for your updating:

- Connect the PC and Label Printer using a USB cable, and install the printer driver first.
- Open the GoLabel software, click the "Graphics" on the left of the window, and then click the blank label on the right, the Graphic Setup window will be open as follow, then click the button "Select Image File", select the logo picture "logo.png", click the button "Start Download Graphics", and then click the button "OK".



9 Bluetooth Application

Bluetooth function is an option, and the Bluetooth and Ethernet can not be available at the same time.

The default Bluetooth name is ID226, default PIN code is 1234.

Bluetooth support all output functions and input functions supported by serial port COM1 and COM2, except for MODBUS-RTU. Refer setup menu F7.1.

Appendix 1 Error Code

Error Code	Error	Remedy
<u> </u>	Weight > Maximum Load + 9d	Decrease load
<u> </u>	Weight below zero 5d	Unload and Press ZERO
<u>no</u>	Out of zero range	Unload weighing platform
EE-2	Not allowed to tare again	Check F1.4.3—ON
--no--	Can not do the key function	
-----	In motion	Wait until no motion
EEE -EEE	Power Up Zero Fail	Check platform or adjust zero
EE-3	EEPROM error	Power on again
EE-35	Calibration in motion	Check platform
EE-4	Number of reference parts too small	Put an additional parts
EE-6	EEPROM R/W error	Call Service
EE-70	Keypad error	Call Service
EE-80	Total Counter >9999	Clear Total
Auto Power Off	Battery Voltage too low	Charge
No Display	The fuse is broken	Change the fuse
EE-999	No load cell connected or load cell off	Connect scale or check load cell cable