Dynamometer

User's Guide

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1. Introduction

Notice

Before you use this dynamometer, please read this manual through carefully, and keep it properly for future use.

Safety Guide

For good performance and precise measurement, be careful with daily operation and maintenance. Note the following instructions:

- Do NOT overload dynamometer. This will damage loadcell and void warranty.
- → Do NOT leave weight loaded on dynamometer for long. This will decrease dynamometer's accuracy and shorten loadcell's life.
- When dynamometer runs out of power, replace the battery with full ones.
- Do NOT use dynamometer under thunder or rain.

 Do NOT attempt to repair dynamometer yourself. Contact your local representative.

2. Specifications

Features

This dynamometer is a combination of the sound and proven mechanical design, with today's most advanced electronics to provide a superb feature set. It is versatile, reliable, accurate and easy to operate.

Superb	Strictly in accordance with
Quality	Chinese GB/T11883-2002
	national standards, and
	European CE directives.
Great Safety	Quality aluminum or steel case
	for better safety.
Newest	2-line digits FSTN LCD display,
Design	with optional shackle and hook.
Leading	SMT technology, quality
Technology	integrated circuit and dedicated
	weighing loadcell, ensures long

	time stability.
Smart	3*AA battery with low power
Power-saving	consumption design.
Portable	Compact structure, easy to carry.

Specifications

-	
Accuracy	$\leq \pm 0.1\%$ F.S.
Tare Range	100% F.S.
Overload Alarm	>F.S.+9e
Max. Safety Load	120% F.S.
Ultimate Load	400% F.S.
Battery	3*AA 1.5V battery
Battery Life	>30hours
Temp. (Op.)	- 10°C ~+ 40°C
Display	43mm(16.92inch) screen
	22mm(8.663inch) character

3. Display&Keys

Scale Keys

Key	Name	Function
		Short pressing: Cancel &
$[\Phi]$	On/Off	return to weighing mode
ON/OFF		Long pressing: Power-on / off
		Short pressing: Tare in/out;
	Tare	Increase digit
TARE		Long pressing: Zero; Move
		digit
	Peak	Short pressing: to lock peak
		hold function; Pressing again
PEAK		to unlock peak hold
	Hold	Short pressing: Lock/unlock;
		Confirm & next
HOLD		Long pressing: Unit Switch;
-		Input / cancel decimal point

Indicators

LED	Name	Note	
5	Stable	shown when weight is stable	
	Zero	shown when weight is at zero	
Ţ	Tared	shown when scale is tared	
14	Hold	shown when scale is locked	
Р	Peak Hold	Shown when weight in peak mode. If weigh value is higher than the previous one, automatically display higher one & locked again	
16	lb	shown when unit is lb	
K 5	kg	shown when unit is kg	
ПИ	UN	shown when unit is User Unit	

Message

Message	Stand for	Note
		detect weight

SEŁUP	SETUP	User Setup Menu	
PWF 33	BATTERY	battery life percentage	
End	END	save and exit	
oFF	OFF	power off	
ouEr	OVERload	overloading	
Err	ERRor	invalid operation	

4. Operations

	Power On/Off		
	Simultaneously press on 1s to power-or		
	scale. Scale perform initialization and power-or		
	test, RARR shows twice, then capacity		
	shows, battery life percentage		
	shows, weight detection		
	shows and then auto zero.		
₽	For information about Auto-Zero, refer to		
	Scale Configuration in Technical Manual.		
	Simultaneously press (b) for 1s to		
	ON/OFF		

power-off scale. Battery life percentage half 99 shows, off message off and then cut off power.

When 3 batteries voltage is lower than 3.2V, scale will auto power-off itself and display Please replace the dead batteries with new ones.

7.ero

Simultaneously press shows.



for 1s to zero. 7

If load is in motion, or tared, or out of Manual-Zero Range, Frr shows.

For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.

Tare In/Out

In gross mode, press | **\(\Lambda \)** to tare in. **\(\T** shows.



(i) If load is in motion, or negative, or out of Tare

Range, $\mathbf{\xi}_{\mathbf{\Gamma}\mathbf{\Gamma}}$ shows.				
Tare will reduce the apparent	overload range			
of scale. For example, if a 500*0.2kg scale has a				
100kg container as its tare, th	e scale will			
overload at a new weight of 4	401.8kg (500 – 100			
+ additional 9 divisions).				
In net weight mode, press	to tare out. T			
disappears.	E			
Lock/Unlock				
Lock/ Officer				
Press fo lock screen.	shows.			
HOLD				
Press fro unlock screen.	disappears.			
HOLD				
Unit Switch				
- Cint Switch				
Simultaneously press fo	r 1s to switch			
HOLD				
 unit in between kg, lb, and Us				
When unit is kg, $\frac{1}{12}$ show				
shows. When unit is Us	ser unit, 🌃			
shows.				

	For more information about User Unit, refer to Scale Configuration in Technical Manual.		
	Peak Hold		
	In weight mode, press vt to peak hold		
₽	function, "P" shows. Press again to exit peak mode, p		
	disappears. In peak mode, weigh will be locked, When the weigh is higher than the previous		
	one, automatically display higher one and locked again.		
	Remark: Press twice also could unlock PEAK Function.		
5.	User Setup		
	Press and at the same time for 1s to		

HOLD

TARE

	enter User Setup menu. 5EEUP shows.
	Auto-Off Timing
	Press to enter Auto-Off Timing. off
	shows. Press to change timing value.
>	Auto-Off Timing can be set to: (disabled), (5min), (10min), (5 (15min), (30min), (60min). It is disabled by default.
	Auto-Off function maximizes scale's battery
	life against people's carelessness not to power
	off scale when it's not working.
	Auto-Off starts countdown timer when there's
	no action or load is stable. Any key pressing or
	motion in load restarts countdown timer.
	Backlight Brightness

to enter Backlight Brightness.

Press

HOLD

	shows.
	Press to change brightness value.
	Backlight Brightness can be set to: a
	(disabled), / (dim), / (normal), / (bright).
	Dim backlight brightness saves battery power
	dramatically.
	Idle Mode Timing
	Press to enter Idle Mode Timing.
	shows.
	Press to change timing value.
₽	Idle Mode Timing can be set to: [] (disabled),
•	5 (5sec), [[] (10sec), [5 (15sec), 3[]
	(30sec), 60 (60sec). It is 30sec by default.
	To maximize battery life, scale automatically
	enters Idle Mode, when there's no action or
	the load is stable.

In Idle Mode, scale works in low-power consumption status. Any key pressing or motion in load wakes up scale from Idle Mode.
 Press to exit User Setup.

6. Trouble-shoot

Simple problems can be resolved as below listed solution. If problems still exist, please contact your local representative.

Symptom	Possible Cause	Suggested Solution
not	discharged /	check battery and
power-on	defective battery	replace
after 🕕	defective On/Off	press harder and keep
ON/OFF	key	pressing for 2s
is pressed	defective power	open front panel, check
	defective	contact representative

	mainboard	
backlight	discharged	replace battery
flashes	battery	
no action	scale is disturbed	re-plug power cable
taken after		
key	defective key	contact representative
pressed		
•	load in motion	keep load stable
	weak	change Anti-Motion
weight	Anti-Motion	level
reading not	damped loadcell	dry loadcell or
stable	or mainboard	mainboard
	defective	
	mainboard	contact representative
. 1.	discharged	
weight	battery	replace battery
reading not zero when	load-cell stressed	hang scale in storage
	too long	
no load	loadcell drifts	contact representative
large error	scale not zeroed	Manual Zero scale
in weight	before applying	before loading
-		

reading	load	
	wrong unit	switch to correct unit
	scale requires	calibrate scale
	calibration	calibrate scale
	defective loadcell	
	or mainboard	contact representative