USER'S GUIDE

KILOTECH

KHS 200 SERIES

MINI CRANE SCALE

CE ETS EMC tested

Content

1. Introduction

Notice

Before you use the scale, 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 the scale. This will damage the loadcell and void the warranty.
- Do **NOT** leave load hung on the scale for long. This will decrease the scale's accuracy and shorten the loadcell's life.
- Inspect shackle and hook before using.
- When the scale runs out of power, replace the battery with fresh ones.
- Do **NOT** use the scale under thunder or rain.
- Do **NOT** attempt to repair the scale yourself. Contact Kilotech at 800-694-4445, 877-328-5988 or www.kilotech.com.

2. Specifications

Features

This scale 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.

Quality	In accordance with OIML R76, GB/T11883-2002. ISO9001-2000 certified quality system.
Construction & design	Stainless steel load receptor and aluminum-casting case for better safety. 0.75 inch - 20mm LCD, visual distance over 10m. Dismountable hook. SMT technology, quality integrated circuit and dedicated weighing loadcell, ensures long stability time.
Power	3*AA battery with low power consumption design.

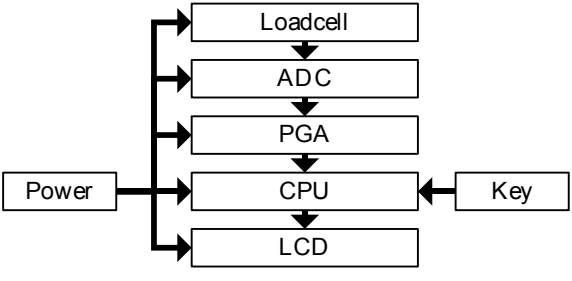
Specifications

Accuracy Class	Chinese GB/T 11883-2002 Class III Equivalent to OIML R76
Tare Range	100% F.S.
Auto Zero	±50% F.S.
Manual Zero	±2% F.S.
Zero-tracking	0.5e/s
Reading Stable Time	≤10 seconds
Auto-sleep	Sable and no action in 3 sec.
Auto-off	Sable and no action in 3 min.
Overload	100% F.S. + 9e
Max. Safety Load	120% F.S.
Ultimate Load	300% F.S.
Battery Life	>150 hours
Battery	3*AA battery
Temp. (Op.)	- 10℃ ~ + 40℃
Humidity (Op.)	≤80% at 20℃ (non-condensing)
Display	0.7 inch (17.78mm) numerical
Net Weight	620g

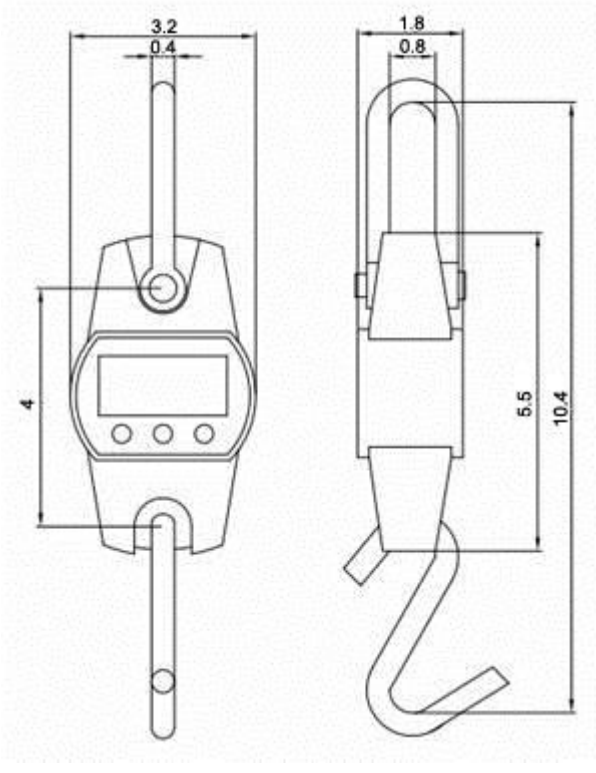
Capacity and Resolution

Model	Max. Cap. (kg/lb)	E (kg/lb)	Division (n)
KHS 200-30	30/60	0.01/0.02	3,000
KHS 200-60	60/120	0.02/0.05	3,000
KHS 200-150	150/300	0.05/0.1	3,000
KHS 200-300	300/600	0.1/0.2	3,000

Schematic Diagram



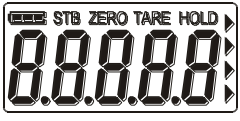
Dimension



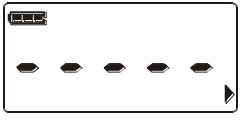
3. Operation Guide

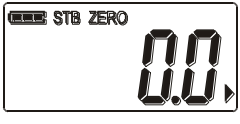
Power On

☞ Press ⏻ for 1 second to power up, battery tests and initializes.



☑ Screen shows detection message while scale detects its load and auto-zero itself.





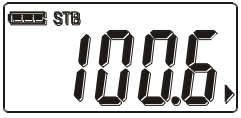
Power Off

☞ Press ⏻ for 1 second to power off scale.

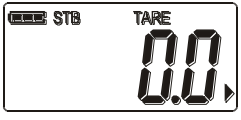
☑ Display shows power-off message.

Tare

☞ Press TARE ZERO to store weight as tare.



☑ "TARE" shows and weight turns zero.



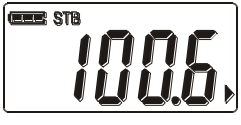
☒ If weight is over 100%F.S., or less than 0, tare is not allowed.

☒ If weight is not stable or held, tare is not allowed.

Taring will reduce scale's apparent overloading range. E.g., if a 10kg container is tared and scale's maximum capacity is 50kg, scale will overload at a new weight of 40.18kg (5000 – 1000 + additional 9 divisions).

☞ Press TARE ZERO to restore tare.

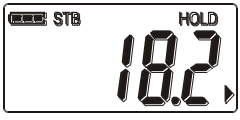
☑ "TARE" hides, and weight resumes in gross mode.



Hold

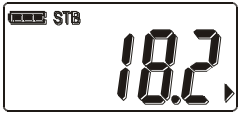
Press HOLD UNIT to lock the display.

☑ "HOLD" shows and display is frozen.



Press HOLD UNIT again to resume display.

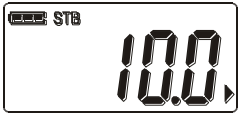
☑ "HOLD" hides and display resume refreshing.



Unit Switch

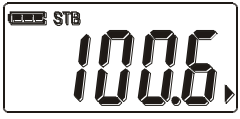
Press HOLD UNIT for 1 second to switch measuring unit between kg, lb and N.

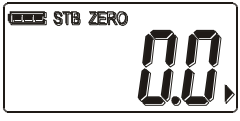
☒ If scale is tared, or held, unit switching is not allowed.



Zero

☞ Press TARE ZERO for 1 second to zero scale.





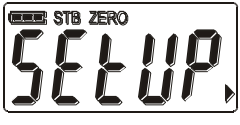
☑ "ZERO" shows and weight turns zero.

☒ If weight is tared, or not stable, or held, zero is not allowed.

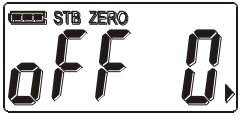
☒ If weight is over Manual-Zero range, zero is not allowed.

Setting

☞ Press HOLD UNIT and TARE ZERO sim ultaneously, and hold the two buttons for 1 second, to enter Setting Mode.

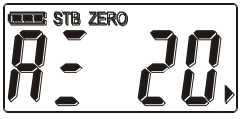


☞ Press TARE ZERO to enter Auto-Off option; and press HOLD UNIT to change Auto-Off option.



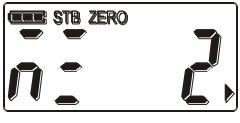
☑ Auto-Off can be set to 0 (disabled), 5 (5min), 15 (15min), 30 (30min), 60 (60min).

☞ Press TARE ZERO to enter Auto-Zero option; and press HOLD UNIT to change Auto-Zero option.



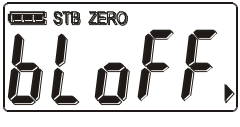
☑ Auto-Zero can be set to 0 (disabled), 2 (2%F.S.), 4 (4%F.S.), 10 (10%F.S.), 20 (20%F.S.), 50 (50%F.S.).

☞ Press TARE ZERO to enter Manual-Zero option; and press HOLD UNIT to change Manual-Zero option.



☑ Manual-Zero can also be set to 0 (disabled), 2 (2%F.S.), 4 (4%F.S.), 10 (10%F.S.), 20 (20%F.S.), 50 (50%F.S.).

☞ Press TARE ZERO to enter Backlight option; and press HOLD UNIT to change Backlight option.



☑ Backlight can be set to off (disabled), 5 (5sec), 15 (15sec), 30 (30sec), 60 (60sec), on

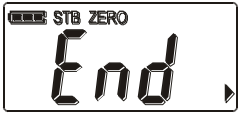
(never).

☑ When Backlight is set to 5, 15, 30, or 60, scale turns off backlight in corresponding seconds after it is stable.

☑ When Backlight is set to off, backlight is disabled, and never turns on.

☑ When Backlight is set to on, scale never turns off backlight, no matter it is stable or not.

☞ Press TARE ZERO to exit the Settings Mode.



4. Trouble-shooting

Symptom	Possible Causes	Solution
blank display when On/Off is pressed	discharged battery	replace battery
	defective battery	
	defective ON/OFF key	press ON/OFF key for long
no action taken after TARE or HOLD is pressed	defective TARE or HOLD key	clean TARE or HOLD key
unstable readings	scale in motion	stabilize the load and scale
	scale is damped	dry the scale
	dust on PCB board	clean PCB board
reading is not zero without load	unstable system power	longer warm-up time
	load-cell stressed too much or too long	hang the scale in storage
large error in weight reading	scale is not zeroed before loading	keep the scale unload and reboot
	re-calibration needed	re-calibrate the scale
	improper unit	switch to proper unit

5. Note