USER GUIDE

DYNAMOMETER

MODEL:OCS-Y

CE

Content

Rev.A

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 Quality	Eqv. OIML R76. ISO9001-2000 certified quality system.
Great Safety	Quality aluminum or steel case for better safety.
Newest Design	2-line digits HTN LCD display, with optional shackle and hook.
Leading Technology	SMT technology, quality integrated circuit and dedicated weighing loadcell, ensures long time stability.

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

Specifications

Accuracy	≤ ± 0.05%F.S.
Tare Range	100% F.S.
Auto Zero Range	± 20% F.S.
Manual Zero Range	± 2% F.S.
Overload Alarm	110% F.S.
Max. Safety Load	120% F.S.
Ultimate Load	400% F.S.
Battery	3*AA (rechargeable) battery
Battery Life	> 300 hours
Temp. (Op.)	- 10℃ ~ + 40℃
Humidity (Op.)	≤90% at 20℃
Display	22mm (0.86inch) numerical 11mm (0.43inch) character

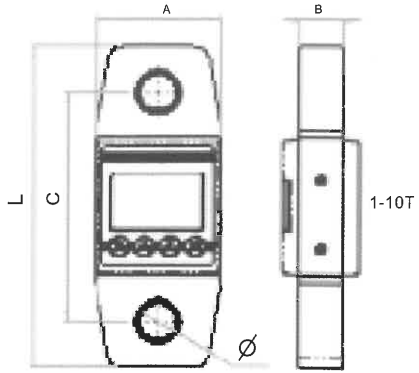
Capacity & Resolution

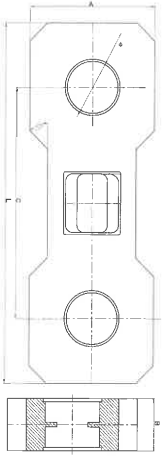
Model	Cap. kg/lb	kg/lb	Div kg/lb
OCS-3-Y	3,000/6,000	1/2	3,000/3,000
OCS-5-Y	5,000/10,000	2/5	2,500/2,000
OCS-10-Y	10,000/20,000	5/10	2,000/2,000
OCS-20-Y	20,000/40,000	10/20	2,000/2,000
OCS-30-Y	30,000/60,000	10/20	3,000/3,000
OCS-50-Y	50,000/100,000	20/50	2,500/2,000

Dimension

Model	A	B	C	L	Φ
OCS-3-Y	90	30	165	230	25
OCS-5-Y	90	30	165	230	32
OCS-10-Y	90	48	195	280	32
OCS-20-Y	126	60	230	350	50
OCS-30-Y	126	62	232	366	60
OCS-50-Y	180	70	320	500	72

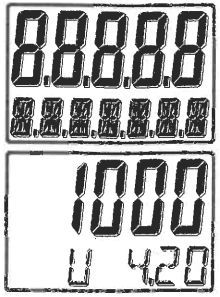
Dimension





3. Operation Guide

Power On



☞ Press ON/OFF for 1 second.

( ) Display flashes twice.

( ) Display shows dynamometer's capacity and battery test.

☐ "U 4.20" indicates that battery voltage is 4.20V.

( ) If weight exceeds 110%F.S., overload message "Ovload" will display.

( ) If battery charge is low, low battery message "Low Bat" will display. Please charge or change the battery.

( ) Dynamometer auto-zero itself.

Power Off

☞ Press ON/OFF for 2 second.

( ) Dynamometer displays power-off message and battery voltage.

Tare In

☞ Press [TARE].

☐ Tare In will reduce the apparent overloading range of the scale.

( ) Display shows net weight.

☐ "T" indicates that weight is in net mode.

Tare View

☞ Press [TARE] and [HOLD] simultaneously.

( ) Display shows tare.

☐ "Tare" indicates that the reading is tare.

Tare Out

☞ Press [TARE].

( ) Display shows weight in gross mode.

Peak Capture

☞ Press [REAK].

( ) Display shows weight in peak mode.

☐ "P" indicates that weight is peak weight.

☞ Press [REAK] again to exit peak mode and resume normal display.

Hold

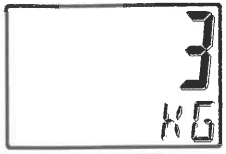
☞ Press HOLD.

( ) Display is fixed with current weight reading.

☐ "H" indicates that weight is peak weight.

☞ Press HOLD again to resume normal display

Zero



☞ Press TARE for 1 second.

☐ Zero is allowed, if weight is within ±2%F.S..

( ) Dynamometer is set to zero.

Unit Switch

☞ Press REAK and HOLD simultaneously.

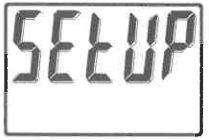
( ) Display shows message "Unit XX", XX is the new unit that will take effect.

( ) Display shows weight in new unit.

☐ Unit changes between "KG", "LB", and "KN".

Setup

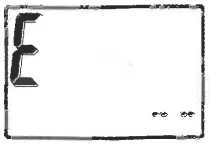
☞ Press TARE and REAK simultaneously.



( ) Display shows message "Setup".

☞ Press HOLD to enter Resolution selection.

☐ In Setup mode, press ON/OFF to exit without saving.



☞ Press TARE and REAK to select Resolution.

☐ Selectable Resolution depends on the dynamometer's capacity.

☞ Press HOLD to enter Auto Off selection.

☞ Press TARE and REAK to select Auto Off delay.

☐ Selectable Auto Off delay are: 0min, 5min, 20min, 60min.

☞ Press HOLD to enter Display Frequency selection.

☞ Press TARE and REAK to select Display Frequency.

☐ Selectable Display Frequency are: 1Hz, 3Hz, 5Hz, 15Hz.

☞ Press HOLD to enter Zero Track selection.

☞ Press TARE and REAK to select Zero Track range.

☐ Selectable Zero Track range are: 0.0E, 0.5E, 1.0E, 1.5E, 2.0E, 3.0E, 4.0E, 5.0E.

☞ Press HOLD to save and exit Setup.

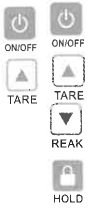
( ) Display shows message "End" and return to weighing mode.

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, REAK or HOLD is pressed	defective TARE, PEAK or HOLD key	clean TARE, PEAK or HOLD key
unstable readings	load in motion	stabilize load
	device is damped	dry the device
	dust on PCB	clean PCB
reading is not zero without load	unstable system power	longer warm-up time
	device stressed too much or too long	hang the device in storage without load
large error in reading	device is not full self-zero before loading	keep the device no load and reboot
	re-calibration needed	re-calibrate the device
	improper unit	switch to proper unit


TARE
REAK


ON/OFF
TARE
PEAK
HOLD


ON/OFF
TARE
ON/OFF
TARE
REAK
HOLD