

Weighting Scale

PS-KA series

Operation Manual

The logo for ACIS, featuring the letters 'A', 'C', 'I', and 'S' in a bold, stylized font. The 'I' is a vertical bar with a dot above it, resembling a colon. The letters are black with a white outline and are set against a dark, textured background.

TABLE OF CONTENTS

I.	Precautions Before Using The Scale-----	(1)
II.	Explanation Of Display Symbols -----	(2)
III.	Keypad Functions -----	(2)
IV.	Operations -----	(3)
V.	Power Supply & Battery Recharging -----	(5)
VI.	Power on setup -----	(6)
VII.	Calibration -----	(8)
VIII.	Error Messages -----	(8)

I . Precautions Before Using The Scale

Environment

The scale should always be used in an environment, which is free from excessive air currents, corrosives, vibration, and temperature or humidity extremes. These factors will affect displayed weight reading.

DO NOT install the scale :







- Next to open windows or doors causing drafts or rapid temperature changes.
- Near air conditioning or heating vents.
- Near vibrating, rotating or reciprocating equipment.
- Near magnetic fields or equipment that generates magnetic fields.
- On an unstable work surface
- In a dusty environment
- In direct sunlight

Turn on Scale






Do not turn on scale with anything on the platform. The switch is located on the right side of the scale. The scale will start a self- check process and then return to zero for normal weighing.

The scale is then ready for use. Give a warm-up for 15~30 minutes before use is most suggested.

II. Explanation Of Display Symbols

-  : Scale is in ZERO mode.
-  : Scale is in TARE mode.
-  : The display reading is in STABLE condition.
-  : weight high limit was set.
-  : Scale is in ACCUMULATION mode.
-  : Scale needs recharging once this battery sign appears.

III. Keypad Functions

-  ~  : Numeric keys used for the entry of weight limits.
-  : Decimal point key.
-  : If there is a minor weight displayed, without anything on the pan; hit the zero key to clear the display.
-  : Use this key to subtract the container's weight. Indicates that the current weight reading is net weight.



: This key is used for weight accumulation.



: kg/lb conversion key.



: Use this key to eliminate weight limit entries.



: For high limit entry confirmation.



: For low limit entry confirmation.



: Use this key to clear the total accumulated weight under ACCUMULATION mode.




: Use this key to clear the readings entered.

IV. Operations

(I) Switch on & off

Push the ON/OFF switch to " I " position to turn on the scale & to " O " position to turn off the scale.


(II) Tare function

Press  key to subtract the container's weight and then " Net" sign will be shown. At this moment,


place objects in the container. The display will show the net weight value. Remove both the container and objects, the display will show the gross weight (container + objects) accompanied by a negative sign.

Tare range : full capacity


(III) Zero function

Press  key to return the display to zero in case there is any zero drifting while unloaded.

(IV) kg/lb conversion


Press  key to revolve units of measure (kg & lb) in weighing mode.

(V) Weight accumulation

Place objects to be weighed on the platform in normal weighing mode and press  key, when the display reading is stable, for accumulation. The display will show the accumulated times. The accumulated weight will appear approx. 2 seconds after accumulated times is shown. When the accumulated

times exceed 99 or the accumulated weight digits exceed the max. display range, the scale will give an error message and the last accumulated weight won't be accepted.

(VI) Preset weight check range

Users can set a Hi-Lo range for weight check. When the weight of objects on the platform is within the preset weight check range, the alarm will sound beeps repeatedly. Input high weight limit value via numeric keys and press  key to preset the value. The same way for low weight limit value.

V. Power supply & Battery Recharging

(I) Power supply

- AC120V / 220V / 240V
- DC 6V / 4Ah rechargeable sealed lead-acid battery

(II) Low voltage indication

when the battery voltage is low, the battery sign will




appear at the bottom of display. The scale will automatically turn off when the voltage is too low. It will operate properly before the power is turned off.

(III) Recharging the battery




Turn off the scale before recharging. A LED indicator on the panel, next to the word " In Charge " will go RED in the process of charging the battery. It will take approx. **12 hours** to fully charge the battery.

VI. Power On Setup






1.weight response speed

Turn on the scale and press  key when " 111111 " appears, the display will show "nb0" to "nb9", Press  key to revolve (nb0:slowest, nb8:fastest, nb9:suit to continue weighing)and press  for determination then return to normal weighing mode.





3.Display division select

Turn on the scale and press  key when "111111" appears, the display will show the selected division. Press  key to revolve and press  for determination then return to normal weighing.

4. Zero Tracking Range and Zero Display Range

Turn on the scale and press  key when "111111" appears, the display will show the selected zero-tracking range. Press  key to revolve and press  for determination, then show the zero display range ("Zero-S" or "Zero-L" : $\pm 3.0d$), Press  key to revolve and press  for determination, then return to normal weighing.

5. Setting for RS232

Press numeral "2" till the end of power-on self-test, it will display baud rate. change it by press the key  and confirm it by press the key  , Then it will display output mode, change it by press the key  and confirm it by press the key 




Co : sepuence output

St : steady output

VII. Error Message

In case the display shows " - - - - - " along with beeping,It tells that the scale is overloaded or incorrect operations are done. Please contact your local dealers for inspection & repai , when you make sure that all operation are correct.

VIII. Calibration

1. Keep pressing  key and switch on the scale simultaneousty. The display will show "99999---00000" and then "CAL" will follow after a long beep is given. Press  again to display "0".
2. Input the value (unit :kg)of weight to be placed on the platform via numeric keys and then put the weight with value same as input on the platform. (1/3 or 2/3 of full capacity is most suggested)
3. Press  key for confirmation. The value of weight on the platform will be shown. The calibration is now completed.

IX. Data transmission – series RS-232 interface

(only for communication)

1. Model EIA-RS 0232C's UART signal
2. Format
 - (1) Baud rate : 2400 ,4800,9600bps
 - (2) Data bits : 8 bits
 - (3) Parity bit : none
 - (4) Stop bit : 1 bit
 - (5) Code ASCII

DATA FORMAT :

HEAD1	HEAD2	DATA	UNIT	CR	
1 2 3	4 5 6	7 8 9 10 11 12	13 14	15 16 17 18	19 20
HEAD1 (2BYTES)			HEAD2 (2BYTES)		
OL - overload			NT - net weight mode		
ST - stable			US - unstable		
DATA(8BYTE)					
2D (HEX) = " - " (negative sign) 20 (HEX) = " " (blank)					
2E (HEX) = " . " (decimal point)					
UNIT (4 byte)					
g= 20 (HEX) ; 20 (HEX) ; 20 (HEX) ; 67 (HEX)					
kg=20 (HEX) ; 20 (HEX) ; 6B (HEX) ; 67 (HEX)					
ct= 20 (HEX) ; 20 (HEX) ; 63 (HEX) ; 74 (HEX)					
ozt= 20 (HEX) ; 6F (HEX) ; 7A (HEX) ; 74 (HEX)					
CR= 0A (HEX) ; OD (HEX)					

Transmission example

1. Ex. : stable net + 0.168 g

HEAD , HEAD , DATA

ST , NT , + 0.168

UNIT

CR

g

OA, OD