Weighing indicator







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PRECAUTIONS



Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.

Do not disassemble the

When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.

Do not overload beyond the maximum weight limit.



Scale must be grounded to minimize electricity static.

This will minimize defect or electric shock.



Do not pull the plug by its cord when unplugging.

Damaged cord could cause electric shock or fire.



To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.



To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.



Avoid placing the scale near heater or in direct sunlight.



insert plug firmly to wall outlet to prevent electric shock.



Use proper Adapter.
Incorrect adapter could

damage the scale.



Do not step up on the scale with wet feet. Platter becomes slippery. Humid condition may cause incorrect reading.





Make sure to plug your scal into the proper power outlet. For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.



Avoid sudden shock to the scale.



Grab on the bottom of the scale when moving.



Keep the scale away from other electromagnetic enerating devices.

This may interfere with accurate reading.



Place the scale on firm and temperature consistent environment.



Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.



PREFACE

Thank you for the purchasing of CAS HDI Indicator.

This Indicator has been designed with CAS reliability, under rigid quality control and with outstanding performance. Your specialty departments can enjoy with CAS products.

We hope that CAS product meets your needs.

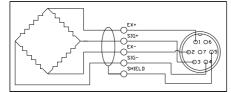
The user manual is designed to guide you to understand product operation and proper care of product.

INSTALLATION & CONNECTION

Load cell connection

Connect load cell connector to load cell port which is in the backside of the indicator.

* Connecting method



IN	COLOR
1 (EXC+)	RED
2 (EXC-)	WHITE
3 (SIG+)	GREEN
4 (SIG-)	BLUE
5 (SHIELD)	SHIELD

Note. Wire color can be different depending on the loadcell's manufacturer or it's model.

* Load cell output to Resolution

5V impression to loadcell Max. load cell output	Recommended resolution
4 mV	1/4,000
8 mV	1/8,000
10 mV	1/10,000

CALIBRATION

- Product initialization

Press key to go to Power on

When

When numbers on the display appears press CAL S/W.

566-98

There will be a beeping sound as the product initializes.

- General Calibration

- * If the product initiation process is skipped, the #4 value will automatically be set to the previously set value and the setup process will be skipped.
- 1. Pressing and holding calibration switch press key to go to calibration mode.
- 2. Pressing and holding key press key to go to calibration mode.



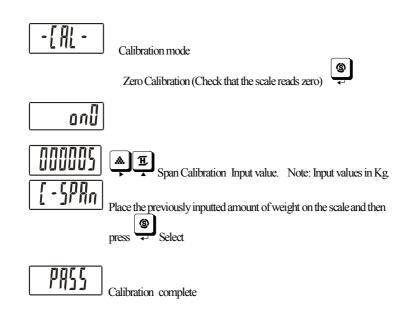






key: Full Capa. Setting (Input values are converted to grams

*When the quick value setting is Dual "3060: 30-60kg, 6015: 60-150kg, 1530: 150-300kg"



OPERATIONS DISPLAY AND KEYBOARD



KEY FUNCTIONS

KEYS	DESCRIPTIONS
FO4	Used to set the zero point to 0.00. Used as an ESC key in Setup Mode.
-74	Used to enter a tare weight and used to cancel a tare weight.
9	Used to convert the mode as below. [kg] → [pcs] → [%]→ [WEIGHT LIMIT ON/OFF] → [COUNT LIMIT ON/OFF] → [kg]
S	Used as an ENTER key.
<u></u>	Used to calculate a unit weight of a sample [▶] Used to enter next digit.
E	Used to display average weight. [] Used to have number up.
	PRINT key. [▼] Used to have number down.
O	Used to turn ON or OFF the power.

1. General Weighing

■ The display indicates if the scale is at zero or if there is a tare entered into the scale by way of a ZERO and NET.





① Tum on the power. The display shows 0.00. Make sure that STABLE and ZERO lamps are on.





② When the display is not zero though there is nothing on the platter, press the ZERO key.





③ Place an item on the platter. When the STABLE lamp is on, read the weight.

2. Weighing with Tare

■ Tare is the weight of container being used for a commodity. The TARE key subtracts the weight of the container.





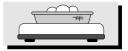
① Place the container on the platter.





② Press the TARE key, NET lamp is on.





③ Place an item in the container.





4 To release the TARE function, remove an item and container from the platter and press the TARE key.

3. Counting Mode

■ Samples on the platter.





① Press the MODE key until the display shows "WLOFF". If you have set sample size before the display shows "0".





② Press the SAMPLE key, then the display shows "10".



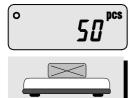


③ If you want to increase sample size, press the SAMPLE key. The display shows 10, 20, 50, 100, 200 every time pressing the SAMPLE key.





- 4) If you set sample size to 10, place 10 samples on the platter.
- *The small value that can escape from 'LACK' message is over MAX CAPA / 3000.
 - a. unit weight ≤ 0.8 e *
 - b. weight load ≤2% of maximum weighing capacity.



⑥ Place parts on the platter, then the display shows the number of parts. You can also use tare function in counting mode.

4. Weight Comparison Function(HI/OK/LOW)





① Press the MODE key until the display shows "WL OFF". It means that weight limit function is deactivated.





② Press the SAMPLE key to activate this function, the display shows "WL ON".





③ Press the SET key to set up low value, the display shows "000.00".









④ Press the HOLD(▲) or PRINT(▼) key to have number up or down. To enter next digit, press the SAMPLE key.



5 Press the SET key to set up high value, the display shows "H000.00".



⑥ Press the HOLD(▲) key to have number up or down. To enter next digit, press the SAMPLE (▶) key.





- 7 Press the SET key, the display shows "End".
- ® If you set up LOW/HIGH limit wrong, "WL ERR" will be shown on the display. Then you have to set it up again. For example) LOW=100.00kg HIGH=90.00kg → High limit is lower than Low limit.
- 9 Press the MODE key to go to weighing mode.

① Suppose that the High limit of 70kg and the Low limit of 30kg are set up. In this condition, $\boxed{\mathbb{K}}$ lamp is lighted on if the weight is 40kg, $\boxed{\mathbb{K}}$ lamp is lighted on if the weight is 80kg and if the weight is 20kg, $\boxed{\mathbb{K}}$ lamp is lighted on. It beeps as fixed on User Setup Mode.











5. Print Out

5-1. Manual Print

■ You can print out data every time pressing the PRINT key. You can setup print function depends on your need. Refer to User Mode Table on page 17.

5-2. Auto Print

- ① To use auto print function, you have to set printer method = 1 in User mode. Refer to User Mode Table on page 17.
- ② If the weight is stable, it is printed out automatically. And You can print out data every time pressing the PRINT key.

5-3. Stream Print

- ① To use auto print function, you have to set printer method = 2 in User mode. Refer to User Mode Table on page 17.
- 2) If the weight is stable, it is printed out continuously
 - < Print Format>

12.000 Kg 15.000 Kg . . .

6. Battery Charge

- Warning massage is shown when the battery voltage is very low. (□ □ □ □)
- At this time, charge the battery.
- The display will show a red lamp and the battery will begin a fast charge automatically.
- Use only the ac adapter which comes with the scale. Other AC adapter may cause damage.

7. SET-UP MODE

Pressing and holding keypress keyto go to set-up mode.



- (a) (b) (c) (d) (e) (f)
- (a) Zero Tracking 0~9d
- (b) Minimum Tracking Digit 0~9d
- (c) Measure of weight after zero tracking 0~9d
- (d) Initial Zero Range 0=20% 1=100%
- (e) Vibration Filter 0=high 1=middle 2=low
- (f) 0 = Colon 1 = Semicolon

Default: 123100

Zero Tracking: 1d

Minimum Tracking Digit: 2d Measure of weight after zero tracking: 3d

Initial Zero Range: 1 = 100%, Vibration Filter: 0 = high, 0 = Colon

8. User Mode

Pressing and holding keypress keyto go to user mode.



(a) Backlight: 1-Auto ,2-On ,3-Off

(b) Auto Power Off: 0 - off, 1 – 10min, 2-30min, 3-60min

(c) Unit of measure: 0-Kg, 1-lb

(d) Baud Rate : 0=4800 1=9600 2=19200 (e) Print method : 0=Auto print when the scale is stable

1 = Print continually when the scale is stable

2 = Manual print

(f) Not Use

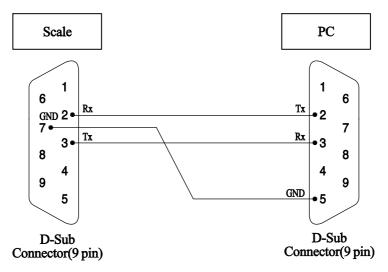
Default: 100120

Backlight: 1-Auto
Auto Power Off: 0 – Off
Unit of measure: 0 – Kg
Baud Rate: 1-9600bps
Print method: 2 – Manual print

ERROR MESSAGES

Error Message on Display	Description	Solution
"Z-Err"	The "Z-Err" occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
"oL"	The "oL" is an overload error.	Please remove the weight.
"b - Err"	The "b-Err" is a low battery error .	Please change new batter.

SERIAL INTERFACE



SPECIFICATIONS

Load Cell Excitation	DC 5 V	
Voltage Zero Adjustment	D0 0 V	
Range	0.05 mV ~ 5 mV	
Input Sensitivity	2 uV/D	
A/D Internal Resolution	1/300000	
A/D External Resolution	1/30000	
Division	X1, x2, x5, x10 , x20 , x50	
A/D Conversion Speed	10 Hz	
Display Below Zero	Minus	
DISPLAY	LCD 6 digits 110mm(W) X 35mm(H)	
DISPLAY LAMP	STABLE, ZERO, HOLD, NET, HI/OK/LO, lb, , PCS, kg, Low Battery	
INTERFACE	RS-232C(Printer)	
POWER SOURCE	DC 12 V 1.25 A Adaptor 6 V 4 Ah Pb Battery	
TEMPERATURE RANGE	-10 °C ~ +40 °C	
PRODUCT SIZE (WDH)mm	220(W)X159(D)X107(H)	
PRODUCT WEIGHT	1.5 kg	
MINIMUM VOLTAGE LEVEL OF THE BATTERY	About 5.6 V	
CONTINUOUS USING TIME	About 100 Hours(Back light Off) About 25 Hours(Back Light On) *The load Cell Specification can have an effect on using time.	
RECHARGING	About 12 Hours	

[▶] Notice: Specifications are subject to change for improvement without notice.

MEMO





CAS BLDG., #1315, YANGJAE-DAERO, GANGDONG-GU, SEOUL, KOREA TEL_ 82 2 2225 3500 FAX_ 82 2 475 4668 www.globalcas.com