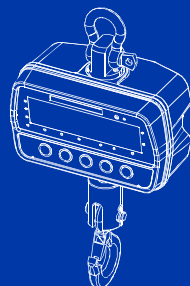


CST1

Crane Scale



CAS

Contents

PRECAUTIONS..... 4

SUSPENSION ANGLE PRECAUTIONS 6

OVERALL VIEW 8

DISPLAY&KEY FUNCTIONS..... 10

BATTERY USAGE 13

FUNCTION & DESCRIPTIONS 14

SET MODE 15

HOLD MODE 18

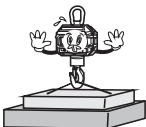
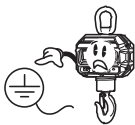
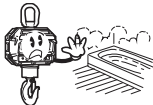
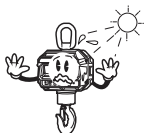
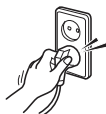
REMOTE CONTROL OPTION 19

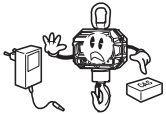
PRODUCT SIZE 20

ERROR MESSAGE..... 22

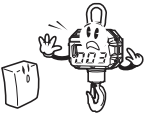
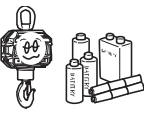
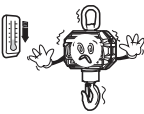
PRECAUTIONS

 **Warning** Turn power switch off on rear panel when you don't use the scale for a long time.

	Do not disassemble the scale. 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.
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 **Attention** Do not stand under the scale while weighing the load, and you should be careful to provide against a safety accident. To install, safety pin in hook should be fixed to prevent dropping out from lift eye bolt.

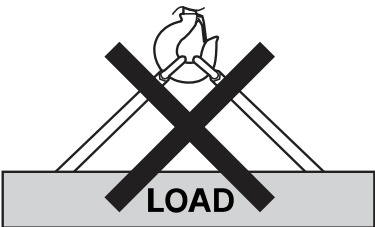
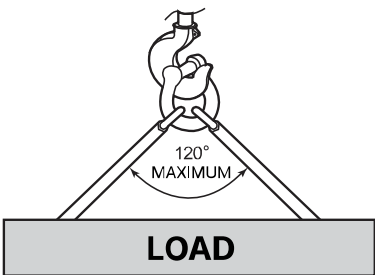
	For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.
	Avoid sudden shock to the scale.
	Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.
	Place the scale on firm and temperature consistent environment.
	Keep the scale away from other electromagnetic generating devices. This may interfere with accurate reading.

* Do not stand up under the product during the weighing but pay attention to any safety accident. Install a safety pin and pay attention to the prevention of breakaway and fall of the eye bolt.

SUSPENSION ANGLE PRECAUTIONS



WARNING: The load which hang on the hook should be a vertical load. (Refer to the next features.)

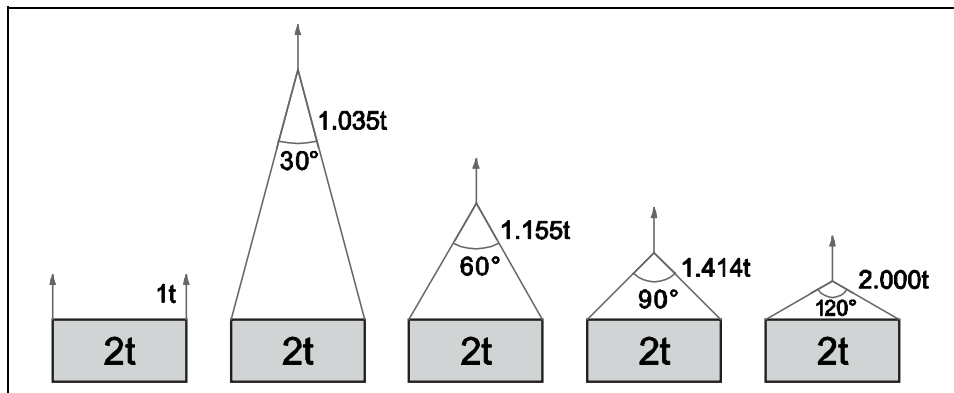


- The load which hang on the hook should be a vertical load.

● Suspension Angle and Wire Tension

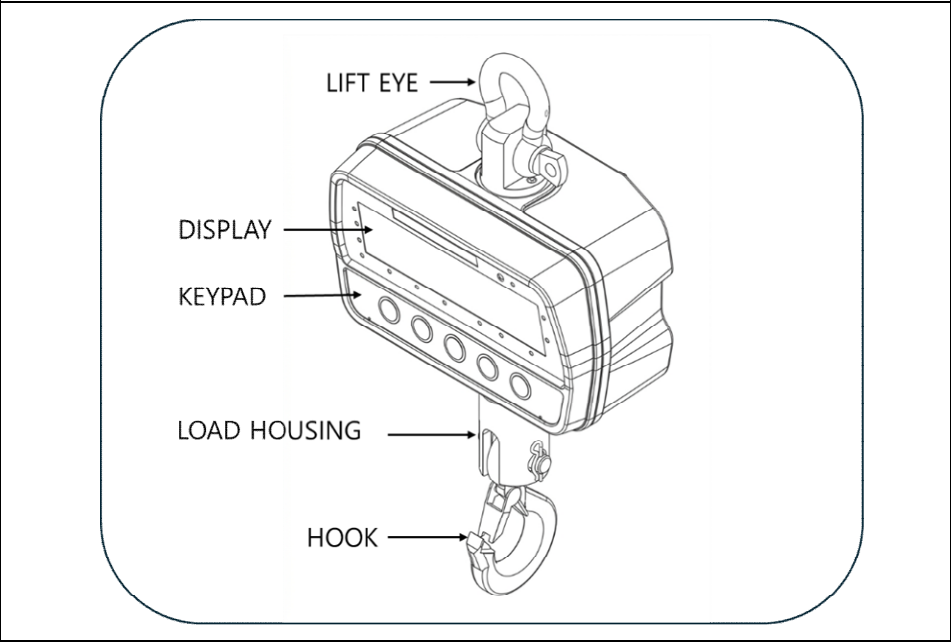
Angle (°)	Tension Applied to Rope or Chain
0°	1.000x
30°	1.035x
60°	1.155x
90°	1.414x
120°	2.000x

● Suspension Angle and Wire Tension



- When using wire ropes or chains, ensure that the suspension angle does not exceed 120°.
- Select wire ropes, chains, or auxiliary lifting devices suitable for the load weight.
- Never walk or stand beneath the suspended load during weighing, and always observe safety precautions.

OVERALL VIEW(CASTON1)



● Specifications (LED Type)

Max Tare Weight	Full Tare
DISPLAY	7-Segment 5 digit (H : 38 mm)
OPERATION TEMPERATURE	-10℃ ~ +40℃
POWER SOURCE	DC 9V/1A, 7.3V/6000mAh Li-ion
DISPLAY LAMP	Kg, lb, Low Battery, Zero, Tare, Hold, Net, Gross, x1000, Sum, Stable, Comm Status
Battery Life Time	Approx. 150 hour

● Specifications (LCD Type)

Max Tare Weight	Full Tare
DISPLAY	LCD 5 digit(H : 38 mm), LED BackLight(Color : Yellow)
OPERATION TEMPERATURE	-10℃ ~ +40℃
POWER SOURCE	DC 9 V /1A, 7.3V/6000mAh Li-ion
DISPLAY LAMP	Kg, lb, Battery Gauge, Zero, Tare, Hold, Net, Gross, x1000, Sum, Stable, Comm Status
Battery Life Time	Approx. 500 hour

● OPTION

OPTION - 1	Bluetooth Interface
OPTION - 2	Butcher Hook (below Capa. 500kg)

DISPLAY & KEY FUNCTIONS

1. LED Type



● Display (LED Type)

Weight Display	The measured weight or message is displayed. (5 Digit).
Low Voltage ()	It is displayed if the battery needs to be charged again.
Battery Status ()	The battery status is displayed.
Stable ()	Indicated when the weight is stable.
ZERO	It is displayed if the measured weight becomes "0".
TARE	It is displayed when the weight of tare is memorized.
HOLD	Indicated when operating the hold function.
NET	Displayed when the net weight is shown.

GROSS	Displayed when the gross weight is shown.
X1000	Displayed when the x1000 function is activated.
SUM	Displayed when the summation function is activated.

2. LCD Type



• Display (LCD Type)

Weight Display	The measured weight or message is displayed. (5 Digit).
Battery Gauge ()	Display battery status.
Stable ()	Indicated when the weight is stable.
ZERO	It is displayed if the measured weight becomes "0".
TARE	It is displayed when the weight of tare is memorized.
HOLD	Indicated when operating the hold function.

NET	Displayed when the net weight is shown.
GROSS	Displayed when the gross weight is shown.
X1000	Displayed when the x1000 function is activated.
SUM	Displayed when the summation function is activated.

● **KEY FUNCTIONS**

KEYS	FUNCTIONS
	Use the key to turn on/off the power supply.
	Use the key for the zero setting.
	Use the key to measure the weight using tare. (Set / release tare)
	Use the key to measure any instable weight (animal, fluid, etc.) (Hold / release)
	Some functions can be defined to the needs.

BATTERY USAGE

- The drop of battery voltage can affect the brightness of display. To prevent this, the regular battery recharging is recommended.
- In case the battery will be left without recharging for a long time. Otherwise, it also can affect the battery life.

1. Charging and usage time

- Please charge the battery when using after storing for a long time.
- You can check the battery level in the upper right corner of the display during use. (LCD Type)
- If there is no remaining battery in use, the low voltage lamp is turned on. (LED Type)
- When the battery power reaches 6.6V, the power turns off automatically.

2. Rechargeable battery use and charging

- When the charging cable is connected to the battery, the red lamp turns on.
- When charging is complete, the green lamp turns on.
- Charging takes approximately 10 hours.

※ Note: The above time may vary depending on battery usage.

FUNCTION & DESCRIPTIONS

1. POWER ON

- Press  key.
- Display is turned on and the count starts from “00000” to “99999”

2. ZERO FUNCTION

- It is possible within $\pm 2\%$ of the maximum weight.
- It does not operate when the weight is instable.

3. TARE FUNCTION

- Use it after removing the weighed object.
- It does not operate when the weight is instable.
- Use it while preventing the sum of tare and weighed object from exceeding the maximum weight.

4. HOLD FUNCTION

There are three functions in the hold function including Average, Auto and Peak hold. To use these functions, it is necessary to check out the ‘HL’ function.

- **Auto hold (HL -> 1)**

- Press the HOLD key before measuring any instable weight.
- The hold lamp is turned on as the “AHold” message is displayed.
- The average value is displayed a few seconds later.

- **Peak hold (HL -> 2)**

- Press the HOLD key if you want to check out the highest weight during the weighing.
- The value is continuously renewed whenever a higher value is inputted before it displays the “PHold” message and then it is released.

- **Average hold (HL -> 3)**

- Press the HOLD key while measuring any instable object to be weighed.
- The “Hold” message is displayed and then the average is calculated and displayed.

- **Hold release**

- Press the HOLD key during operations.
- Remove the weighed object which has been measured.
- The ‘hdoFF’ message is displayed and it returns to the weigh mode.

SET MODE

1) How to enter set mode

Turn on the power while pressing the “Zero” key on the front of the indicator

2) Available Keys

● Key Usage

Zero key	Use the key to increase the input value.
Tare key	Change the number of digits in the input value.
Hold key	The key enables you to store the input value and then move over to the next mode.

3) Set Value Conversion Menu

Classification	Display	Description
General Setting	AP	Auto Power Off
	SB	Sleep Mode Time
	BR	Back Light Use Time (LCD Type Only)
	BA	Back Light Brightness Adjustment (LCD Type Only)
	FU	 Function Key Setting
Communication Setting (OPTION)	ID	Set Device ID
	OP	Sets the wireless interface mode.

1. General Setting

(1) AP (Auto Power Off)

Set Auto Power Off Time	
Display	Function
AP-00	Not used.
AP-10	The power supply is turned after 10 minutes if it is not used.
AP-20	The power supply is turned after 20 minutes if it is not used.
AP-30	The power supply is turned after 30 minutes if it is not used.

(2) SB (Sleep Mode Time Setting)

Sleep Mode Time Setting	
Display	Function
Sb-00	Not used.
Sb-20	It becomes Sleep mode after 20 seconds if it is not used.
Sb-40	It becomes Sleep mode after 40 seconds if it is not used.
Sb-60	It becomes Sleep mode after 60 seconds if it is not used.

(3) BS (Back Light Use Time_LCD Type Only)

Led Back Light Time Setting	
Display	Function
BS-00	Not used
BS-01	It is always ON.
BS-10	Back light turn off after 10 seconds if it is not used.
BS-30	Back light turn off after 30 seconds if it is not used.

(4) BR (Back Light Brightness Adjustment _LCD Type Only)

Led Back Light Brightness Adjustment	
Display	Function
BR-0 ~ BR-7	Set brightness to 0. (Dark)
	Set brightness to 5. (Bright)

(5) BA (Weight Back Up)

Weight Back up Setting	
Display	Function
BA-OFF	Not used
BA-ON	Weight back up is used.

(6) FU (Function Key Setting)

* Function Key Setting	
Display	Function
FU-00	Battery status key (Unit : %)
FU-01	Cleaning key (to erase the sum weight value)
FU-02	Sum key (to add weights each time the key is pressed)
FU-03	Net/Gross Weight Change Key

2. Communication Settings**(7) ID (Set the device number)**

Device ID	
Display	Function
ID-0 ~ ID-9	Set the equipment number to 0.
	Set the equipment number to 9.

(8) OP (Communication Settings)

Communication Settings	
Display	Function
OP-NO	Disabled.
OP-BT	It uses Bluetooth communication function.

HOLD MODE

1) How to enter hold mode

‘HL’ can be set if the power supply is turned on while pressing the HOLD key.

2) Available Keys

● Key Usage

Zero key	Use the key to increase the input value.
Hold key	The key enables you to store the input value and then move over to the next mode, entering the weigh mode after the BR functions.

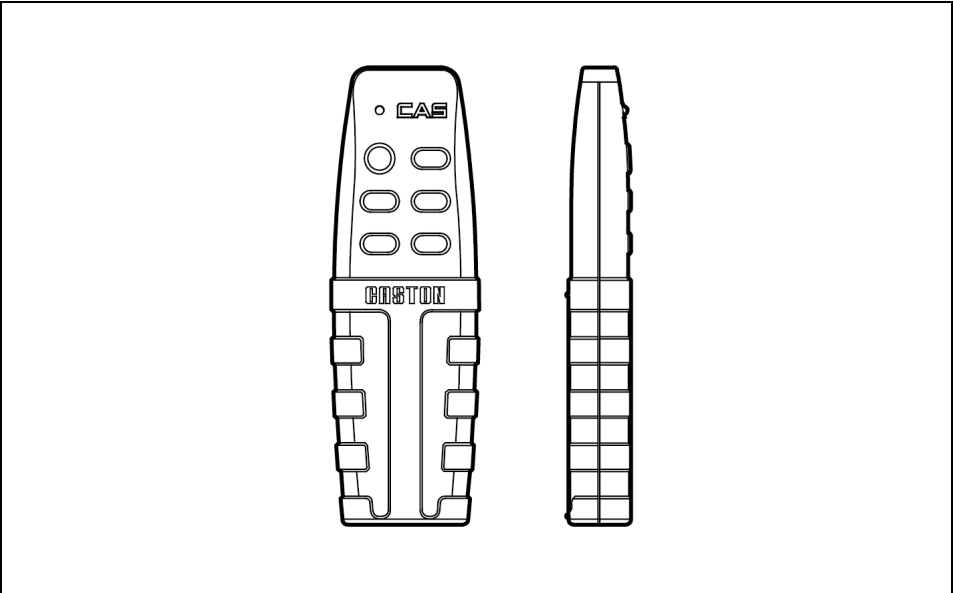
● Setting Menu

DISPLAY	FUNCTION
HL-00	Not used.
HL-01	Auto hold / hold for the value at the moment.
HL-02	Peak hold
HL-03	Average hold

Notice: The weight value might not be accurate if the hold function is used.

REMOTE CONTROL OPTION

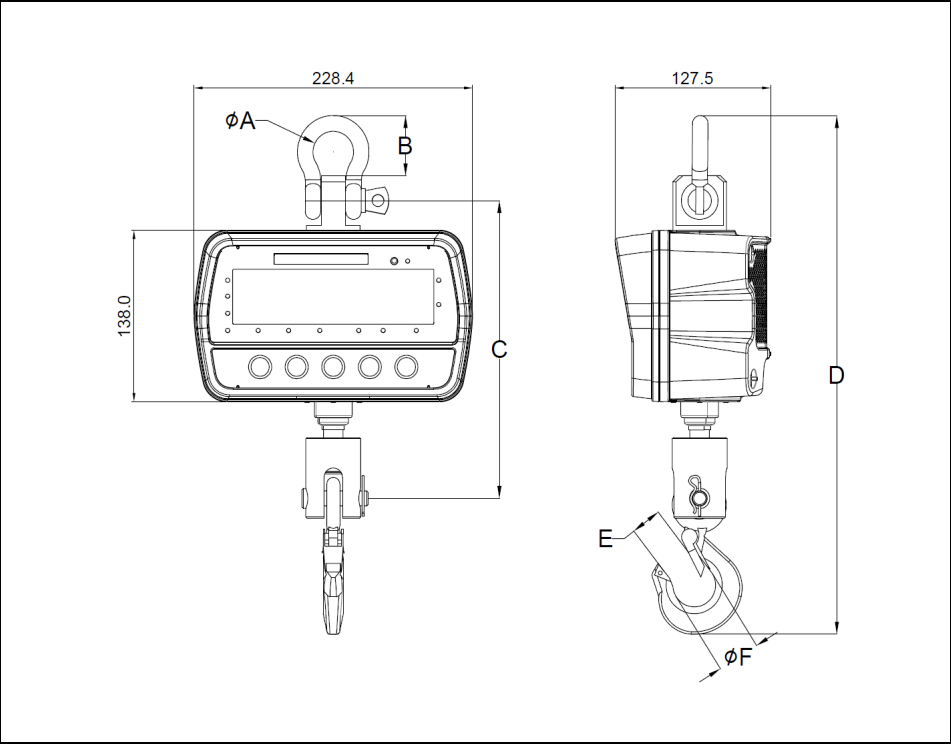
- ON/OFF: Button to operate power on/off.
- ZERO: Button to correct zero value.
- TARE: Used to tare value memorizing.
- HOLD: Used to weigh moving thing.
- CLEAR : Used to clear summing weight.
- SUM : Used to sum item



REMOTE CONTROL	
AVAILABLEDISTANCE	6m ~ 9m
AVAILABLEANGLE	60°
POWER	3V(1.5VAMMx2)

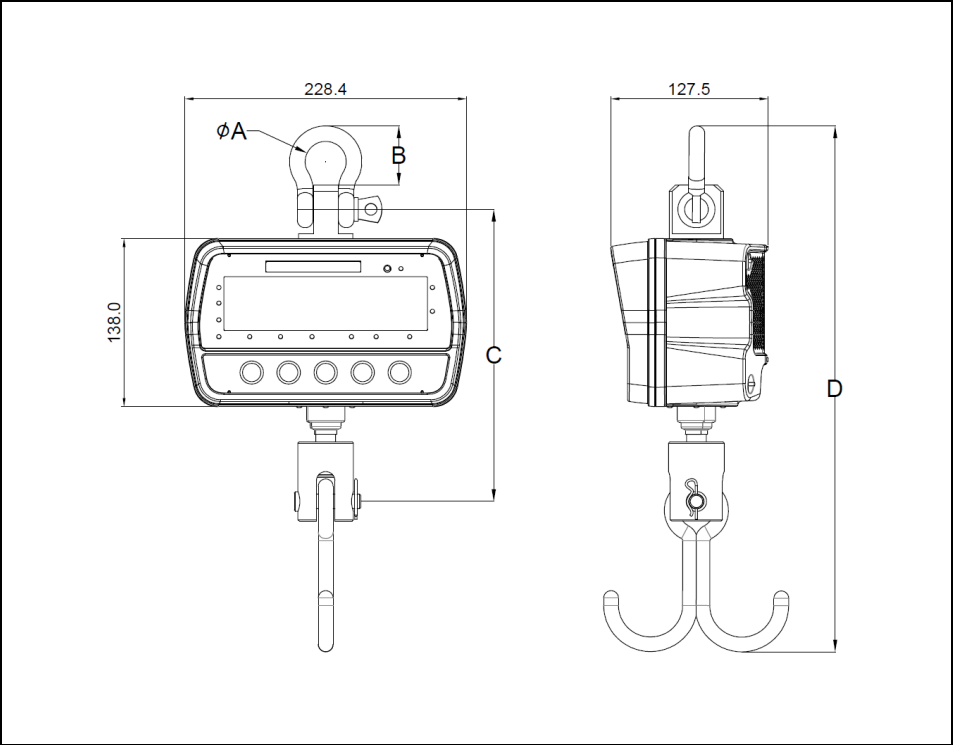
PRODUCT SIZE

1. Standard Type



MAX CAPA	DIVISION	A	B	C	D	E	F	WEIGHT
100 KG	0.05KG	33.8	48	240	418	22.3	29.3	3.2kg
300 KG	0.1KG	33.8	48	240	418	22.3	29.3	3.2kg
500 KG	0.2KG	33.8	48	250	428	22.3	29.3	4.1kg
1 TON	0.5KG	50	79	264	540	32.6	49.2	8.4kg
2 TON	1.0KG	50	79	264	540	32.6	49.2	8.4kg

2. Bucher Hook Type



MAX CAPA	DIVISION	A	B	C	D	E	F	WEIGHT
100 KG	0.05KG	33.8	48	240	432			3.3kg
300 KG	0.1KG	33.8	48	240	432			3.3kg
500 KG	0.2KG	33.8	48	250	442			4.2kg

ERROR MESSAGE

Error Message	Description	Solution
"Err 0"	The "Err 0" occurs when scale is not stable.	Remove unstable facts.
"Err 1"	The "Err 1" occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
"Err 3"	The "Err 3" is an overload error.	Please remove the weight.

► Notice : Specifications are subject to change for improvement without notice.

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CST1

Crane Scale



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