TPS

OPERATION MANUAL

VIBRA HAW SERIES

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III. Power Source Illustration

Low battery warning

When ⊟ symbol appears in the upper left hand corner of the LCD display, the internal battery needs to be recharged.

If the battery is not recharged and the battery symbol appears, the scale will switch off automatically after approximately 2–3 hours of additional use.

Model number	Capacity	Division	Pan Size (mm)
VIBRA HAW 3	3kg	0.1g	230 x 290
VIBRA HAW 6	6kg	0.2g	230 x 290
VIBRA HAW 15	15kg	0.5g	230 x 290
VIBRA HAW 30	30kg	1g	230 x 290
VIBRA HAW 2	2kg	0.1g	230 x 290
VIBRA HAW 5	5kg	0.2g	230 x 290
VIBRA HAW 10	10kg	0.5g	230 x 290
VIBRA HAW 20	20kg	1g	230 x 290

I. Major Parameter

Mode: HAW series, FWD series, FHW series

Division Value: 1~75000   Non-linearity: ≤0.01%F.S

Load cell excitation: 5V DC·,5% 100mA

Load cell: 350Ω

Operation keypad: 10

Display: LCD, 6 digits, green backlight

Operating Temperature: 0~40℃；≤85%RH   Fuse: 500mA

Power Source: AC 110V/220V (±10%) + DC 6V/4.5AH
              Rechargeable Battery

II. Special Remarks

1. Put the scale on a firm level surface for accurate weight readings.
2. Please use independent AC outlet to avoid the interference of other electrical appliances; Please don't place anything on the scale pan while power on.
3. Avoid the machine near the exhaust port of ventilating system.
4. Please warm up the machine 15-20 minutes before operation.

5. All goods weighed should be placed in the centre of the platform for a accurate weighing. The overall dimensions of the goods being weighed should not exceed the dimension of the plaster.
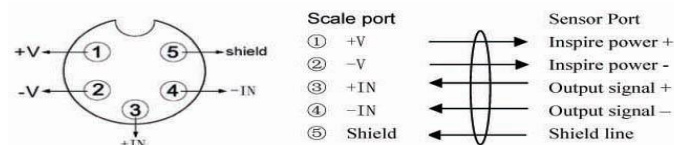
III. Display Explanation

ation

~ :Stable indication   ▬ :Negative indication

NET :Net weight   GROSS :Gross weight

Pcs :Counting mode   unit : GN ,Mo, oz, ozt, ct, kg, g, dwt

◀ :low preset limit value   ▶ : High preset limit values

OK :The range between high and or low limit weight values

▽1 : Accumulate   ▽2 : Sample too Small

▽3 : Unit Weight too Small

IV. Connection between Sensor and Instrument

Instrument and sensor are connected by the five core aviation plug. The function of each pin is as follow:

(VI) Counting function

Press the **COUNT** key to the sample size (10, 20, 50, 100, 200, 500 and 1000 pieces), put the sample number on the scale and press the **RE-CALL** key, when the scale is stable, the display shows the present quantity on the platter.

Press the **COUNT** key to return back the weighting mode.

NOTE：

<1>. SAMPLE TOO SMALL**:** Sample is less than 10 divisions.

(The minimum sample weight = 10d)

<2>. UNIT WEIGHT TOO SMALL: Unit weight is less than 1/5 of a division.

Under such conditions, the scale can still work, but may result in deviation.

The larger the sample size, the more accurate the unit weight.

(VII) Accumulating

Place the object onto the scale and stable, press **M+** key to "Add" and then show the accumulate number of weighing and accumulated weight.

Recall the accumulated value

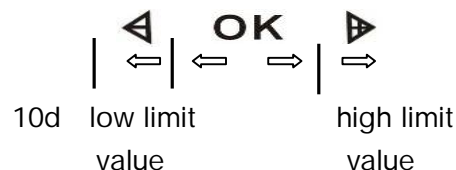Press the **M+** key to recall the accumulated value.

Clear the accumulated value

Press the **CE** and **M+** key to clear the accumulated value.

NOTE：The totaling function can be used up to a maximum of 99 times with 6 digits maximum.

If the accumulated value is extra the range, it appear "ADDOL" Press **CE** to exit.

(3)The way of LCD bright

◀ OK ▶
| ⇦ | ⇦ ⇨ | ⇨

10d   low limit   high limit
       value   value

Under entering preset mode, press **TARE** key to exit.

(4)Recall the pre-set value

Press **RE-CALL** key to recall the preset and weight value.

(5)Clear pre-set value

Press **CE** key to and then press **RE-CALL** key to clear the preset weight value..

(V) The units transform

The weighing unit conversion table (the conversion factor corresponds to gram)

UNIT	Conversion factor	Marked
Kilogram	1000	Kg
Carat	5	ct
Ounce	0.035273962	oz
Troy ounce	0.032150747	ozt
Dramming	0.643014931	dwt
lb	0.0022045	lb
British	15.43235835	GN
Mommes	0.26670000	mo

the pan ,hit the this key to clear the display

TARE : Use this key to subtract that the current weight readings is net weight.

V. Keyboard Function

UNIT SW :Use this key to select the unit weight

COUNT : Use this key to enter the counting mode

M+ :This key is used for weight accumulation

CAL : Calibration function

LIMIT :memory recall ,to recall limit data from memory.

CE :Use this key to clear the readings entered.

BL :data entry key and backlight key

RE-CALL :Preset high and low limit value warning function; Warning while outrun the high limit value; Warning while lower than the low limit value; Warning while between low and high limit value; Warning while our of low and high limit value.

ZERO : If there is a minor weight displayed without anything on

VI. Operation

(I) Backlight

Press ⌂BL key to choose the display backlight mode：

1. AUTO: "Auto Backlight" mode. When the weight is over 5 divisions, the backlight will be switched on.
2. ON: Display backlight is on all the time.
3. OFF: Display backlight is off.

(II)Calibration

Press **CAL** key, put on the weight with value same as the screen display, when the scale is stable and the buzzer sounds ,the calibration is finished.

NOTE: When the screen display the value of the weight, press **CE** key for 1 second and then press ⌂BL ,it will show "0- - - -- - ", then input 0-9 by ⌂BL, press **M+** the key to input point, press **RE-CALL** key to figure, when the input value flickers, put on the weight to calibration.

Press **CE** key and then press ⌂BL to clear the value.

Pres **TARE** key for one second to exit the calibration mode.

(III)Recover the factory Set

Press **ZERO** key to return the display to zero, and then press **CE** key to show "Centr" and before it disappear press **RE-CALL** key to appear "RES", press **TARE** key to recover the factory set.

(IV) Pre-set Warning

The weight range can be preset, if exceed the weight range; the buzzer will sound every time.

(1) Pre-set low limit value and high limit value

Press the **LIMIT** key to shows "- - LO - -", press the ⌂BL to display "0----",pres ⌂BL key to input 0-9 . Press **CE** key and ther ⌂BL key to clear the value.

After setting the low limit value, the display shows"—HI—" to set the high limit value, the method is the same to the setting low limit value.

After enter the low and high value, the display shows "IN OU", press ⌂BL key to select warning out of low or high limit value. pres **RE-CALL** to select warning between low and high value.

(2) Pre-set high limit value or low limit value

After setting the low limit value, when the display show "- - Hi - -", press **LIMIT** key to show "LO Hi", press ⌂BL to select high limit value; press **RE-CALL** to select low limit value.