Operation Manual for Minneapolis Scale 30/1
Please carefully read the instructions before use

! Look for

Black power cord plug is dedicated 220V
Red power cord plug is dedicated 110V

Thank you for your choice and use of our electronic scale and please carefully read the following operation manual before using it.

1. Please check the weighing performance of the scale before it is used every day and stop to use it if something wrong is found.
2. It is strictly prohibited to overload the scale at any time.If the scale is overloaded,its load cell may be damaged.
3. Please recharge the scale when [LobAt] is seen.Otherwise,the life span of the battery will be affected.

I.General Description

ACS series electronic scale is adopted by high precision A/D chip and load cell with high accuracyIt is featured by such advantages as accurate weighing result,quickness,stable performance and reliability.It also has the fucntion of counting,weighing,speed change and etc.It can be used in the normal condition for weighing and also in the condition where the quickest weighing and pakaging is needed,for example in the the production line.

II. Main Technical Specification

1.Weighing Capacity: 3kg,6kg,15kg,30kg

2.Accuracy Class: III；

3.Automatic zero when it is on and zero automatic tracing

4.Weighing,counting and displaying the speed change

5.Power: AC220V 50Hz -60 Hz and DC alternatively,DC 4V/4Ah (rechargeable battery)

6. Working Temperature: -10℃-+40℃

7. Relative humidity: ≤ 85% RH

III.Operation explanation

The scale should be placed in the floor that is stable and flat and can be adjusted to the the horizontale position by adjusting four feet at the bottom of the scale.

1.Turn on: After connecting the **AC** power source,the indicating lamp will be lit and then turn on the scale,you can see **[SDEL]** in the weighing window and **[dC x.xx]** afterwards showing the voltage of the battery **(If the voltage is less 4.0v,you should recharge the battery and then use it)**, and then the scale is in process of the self checking by stroking.The scale is not be used normally until “0” is seen in the window at last.

2.**ZERO**:When operated,if the zero shift is found,please press **[ZERO]** key and then the weight is in zero place (Zero ranges: ≤10%FS, it is not effective when it is tared)

3.TARE: Press **[TARE]** key and weight is seen as zero.When the lamp for the tare is lit,it displays the net weight.After removing the weight already put on the scale,it displays the negative weight and then press [TARE] key and the weighing returns to the zero and the lamp for the tare is off (Tare ranges: ≤100%FS，It is not effective when the weight is negative)

4.Counting function: After the scale is on and zero has been returned,put the same object whose pieces have been known,press **[COUNT]** key,displaying **[C_____]**，and then press **【←ZERO】 【↑TARE】**key to input the sampling pieces as desired and then press **[COUNT]** key. (Note:press **【↑TARE】**key to input the number and press **【←ZERO】**key

to shift leftwards)

When the counting fuc ntion is operated,press **[COUNT]** key once again to return to the weighing condition and thus the lamp for the counting function is off.

Note:It is required in principle that the unit weight of the sampling pieces is not less than the devision of the scale.Otherwise,the counting accuracy will be affected.

5. **Power saving fucntion:**The scale will automatically enter into the energy saving status after seconds when the weight window displays **[0.0]** and the weighing is not operated.The backlight for the **LCD** series products is closed.For the **LED** products,it becomes **"0"**.It will automatically resumes to work when operating the weighing.But if **DC** power is used,the energy saving function does not work.
6. **Speed change:** Press and hold **[ZERO]** key for three seconds and after the instrument indicates **"-----X"** ,the speed change will be done, X is for the speed mode: **0-quickest speed,2-slowest speed**

IV.Attentions

1**.For battery:** When the scale is turned on and in process of the weighing function,the display **[LO]** that is seen in the window shows that the electricity in the battery is used out and it is necessary to be charged immediately. And when **[LO]** is seen,you should turn off the scale so as to charge the battery at once.Otherwise,the life span of the battery will be affected.

2.How to charge the battery: Powered by AC,the indicating lamp for AC power is lit and the battery charge begins (It is more faster in the case that the scale is off).It will take more than 12 hours to finish the battery charge.If the scale is not used for a relatively longer time,the battery should be charged every 2 months.

3.Simple testing method for the weighing performance: Before the scale is used every day,if the weight of some object that is used to compare each other such as the poise is found abnormal,you should stop to use the scale and send it to the service office for repairing.

4.The scale is not water proof and can not be weted with water and oil when used.It is strictly prohibited to use the scale in the wet condition.

5.The scale is not allowed to be used together with high powered equipment with the same power line.

V.How to calibrate

When the scale is found incorrect,please calibrate the scale in the following procedures.

1. Preheated for **5** minutes after the scale is turned on
2. Turn on the scale again and return the zero
3. put **1/3** of the full capacity weight by poise (for example,for **3kg** scale,put **1kg** poise)
4. After stable,press and hold **[COUNT]** + **[TARE]** for three seconds,you can see the weight of the poise you loaded and the calibration is over.

VI.Failure and solution

1. **[FULL]**——oveload.You should move the object on the scale and otherwise the scale may damage the load cell
2. **[LLLLL]**—— The zero position of the load cell is negative.Please chck the instrument and load cell
3. **[LO]**——The voltage of the battery is too low and it is necessary to charge the battery
4. **[LO]**——The battery is use up and it is necessary to turn off the scale for charging at once
5. **[25CO1]**——The parameter already calibrated is lost and the scale is locked.It is necessary to calibrate the scale once again

Important remarks: the user is required to maintain the battery and the load cell (The overlaod is strictly prohibited).These two items are not within the framework of warranty.