

All in one enclosure version has TR-1-NK-HE on top and "Load-Monitor" below



"Load Monitor" Add on later version

Start with scale unit TR-1-NK-HE



## Load Monitor information

The "Load Monitor" unit gives the operator a secondary display showing load information for easier loading to target values.

The monitor can be used on forklifts and bucket loaders. The system can be setup to view the weight on the forks or bucket as it goes up, or view it going from the target weight setting down toward zero. The accumulated total can be viewed also. This total can be displayed going up or from a target setting going down from the target allowing the operator to see how much more to load to reach the target load total.

There are two LED alarm lights to indicate when the target weight values are reached. One is for a current weight on the forks or bucket, and the other is for the accumulated load total. There is also an audible alarm that can sound when either or both of these alarm settings are reached.

The "Current" alarm and "Load" alarm weight values are set with the front panel buttons.

Setting the alarms:

1. Press the SET button until the unit flashes dashes and shows the current setting for the "Current" weight alarm. Note that the CURRENT light in the ALARM box is on.
2. Use the ARROW up or ARROW down button to set the value desired.
3. Press the SET button again until the unit flashes dashes and shows the "Load" weight alarm value. Note that the LOAD light in the ALARM box is on.
4. Use the ARROW up or ARROW down button to set the desired value.
5. Press the SET button again until the unit flashes dashes and returns to normal display mode.

Operation:

1. Turn the unit on and the "Load" total is clear.
2. Pick up the desired material and view the display of either the "Current" weight or the "Load" total weight.
3. Use the TOTAL/CURRENT button to switch between display of the "Current" and "Load" values.
4. The "Load" total will only update when the PRINT/ADD button is pushed on the main scale unit.
5. When "Current" or "Load" target values are reached, the associated alarm LED will light, and if the audible alarm is activated, it will also sound.

Sample setups:

Sample #1. Bucket loader or forklift being used to load a container (truck) to a specific weight. No alarm for individual "Current" weights, and Sound Alarm when the "Load" total is reached. Allow the operator to see how much is needed to get to the target "Load" total.

Set parameters to the following:

Parameter 0 to 01 so the unit will be displaying "Load" total when first turned on.  
Parameter 1 to 02 so we get an alarm when the "Load" total is reached.  
Parameter 2 to 01 so the audible alarm will sound. Set this parameter to 00 if the audible alarm is not desired.  
Parameter 3 to 01 so the "Load" total will be displayed going down toward zero. This shows how much is needed to reach the alarm point.  
Parameter 4 to 00 so if the "Current" weight is displayed, it will be the same as the main scale unit.

On the LOAD MONITOR unit, set the "Load" total alarm to the amount of material to load into the container. On the main scale unit, clear the "TOTAL" by pressing and holding TOTAL while pushing and releasing the ZERO button.

With this setup, the operator can see how much is needed to complete the "Load". If the operator can get that amount in the bucket as shown on the main units display, then the load will be complete when he presses the PRINT/+ button on the main unit.

Sample #2. Forklift being used as a scale with empty container on the forks. No alarm for "Load" total, but sound the alarm when the "Current" alarm weight is reached.

Set parameters to the following:

Parameter 0 to 00 so the unit will be displaying "Current" weight when first turned on.  
Parameter 1 to 01 so we get an alarm when the "Current" weight setting is reached.  
Parameter 2 to 01 so the audible alarm will sound. Set this parameter to 00 if the audible alarm is not desired.  
Parameter 3 to 00 so the "Load" total will be displayed going if the unit is put in the "Load" display mode.  
Parameter 4 to 01 so the "Current" weight will be displayed going down toward zero. This shows how much is needed to reach the alarm point.

On the LOAD MONITOR unit, set the "Current" weight alarm to the amount of material to load into the container.

With this setup, the operator can see how much is needed to complete the filling. The main scale unit will show how much is currently in the container. When the LOAD MONITOR display shows zero or goes minus, the alarm will turn on.

## Load Monitor display unit Parameters

### Parameter Entry:

1. Turn power off and hold the UP ARROW button while turning the Power on.
2. Note the display shows all dashes.
3. Press and release the TOTAL/CURRENT button.
4. The display will show 00--nn (The 00 denotes parameter number 0 and the nn may be any 2 digit number representing the current value set for parameter number 0.
5. To change the value of this parameter, use the UP ARROW button to go up or use the DOWN ARROW button to go down.
6. To cycle to the next parameter, press the TOTAL/CURRENT button
8. Continue steps 5 and 6 for all parameters desired.
9. When finished, press the SET button to return to the normal display mode.

### FACTORY SETTING OF PARAMETERS as of 5/02/2009

(parameter number is the single digit and factory setting is the 2 digit number)

# 0=01 = Startup in Load weight of Total weight

00 = Load weight

01 = Total weight

# 1=02 = Alarm

00 = No Alarms

01 = Alarm when Current weight is reached

02 = Alarm when Load total weight is reached

03 = Alarm when either is reached.

# 2=00 = Alarm Sound

00 = No alarm sound (lights only)

01 = Alarm sound enabled

# 3=01 = Load Total display mode

00 = The total will be displayed going up.

01 = The total will display going down to show how much is needed to reach the target alarm weight

# 4=00 = Current weight display mode

00 = Show the current weight going up as a normal scale weight

01 = Show the current weight going down to show how much is needed to reach the target current weight

# 5=00

# 6=00

# 7=00

# 8=00

# 9=00