

DIGITAL WEIGHT COMPUTER MODEL TR-1-NK

STANDARD OPERATION FEATURES (MINI295-KG SOFTWARE)

This unit has the pounds to kilogram conversion feature
If this feature is enabled, be sure that all calibration is done in pounds.

ZERO BUTTON:

To bring the scale to a zero balance reading, press the ZERO button. The button will not activate if the MOTION lamp is on.

NOTE: On battery powered units, hold this button to turn the power OFF.

: Lb/Kg CONVERSION

Push to change between lb and kg display modes. Each time the button is pushed, the tare weight will be automatically cleared.

NOTE: This is the power ON button for battery powered units

GROSS NET:

Press the GROSS/NET button to switch between the GROSS weight display mode and the NET weight display mode. The lamp will light to indicate which mode is being displayed.

PRINT:

To activate an optional printer, press the PRINT button. The printer data output will become active when the weight is not in motion or in an overload condition.

TARE:

This button is used to input a TARE weight value. This value is taken automatically taken as the GROSS weight value.

When the weight is stable (no motion), press the TARE button, and hold for one display update. If the gross weight was not a negative value, the tare weight now equals the gross weight and the display will show a NET weight of zero.

Parameter Entry:

1. Open the indicator to access the CAL button.
2. Press the CAL button until the display shows-----
3. Press and release the NET/GROSS 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 PRINT button to go up or use the TARE button to go down.
6. To cycle to the next parameter, press the NET/GROSS button
8. Continue steps 5 and 6 for all parameters desired.
9. When finished, press the CAL. button again to flash ----- and return to the weight display mode.

Note: Do not change parameters as this may affect proper function of the scale

Factory Parameter Setting

Parameter List:

- 1 # 0 = LB/KG enable & startup mode.
Set to 0 to disable the lb to kg conversion Set to 1 to startup in POUNDS mode
Set to 2 to startup in KILOGRAM mode
- 3 # 1 = Sample rate / Update rate.
The sample rate can be set for the desired operation. Note that having the continuous data output turned on by parameter 9, will slow down the displayed update rate.
Set this to a value between 1 and 7.
1 is the slowest and most stable update rate
7 is the fastest update and can be used when batching or set points are being used.
- 01 # 2 = The displayed graduation size. Set at 05 if a graduation size of 5 is required.
Valid settings are from 01 to 50
NOTE: Graduation size of 1 can only be used up to 14,000
Graduation size of 10 can only be used up to 140,000
- 99 # 3 = The overload trip-point in hundreds of graduations +1% If the scale is to be 2,500 by a graduation of 1, then a setting of 25 would cause the overload to activate at 2,525.
Set to 99 if no overload point is desired. Set to 00 for a 10,000 graduation overload.
- 02 # 4 = The motion detection window setting. Set this to the number of graduations that will be allowed as a no- motion condition.
For units with battery, this parameter sets the auto-shutoff time period.
- 00 # 5 = Zero tracking amount. This parameter is set to the number of graduations allowed to be auto-zeroed, when the weight is not in motion and is equal or under this setting.
- 00 # 6 = The decimal point position. i.e., 02 will cause 0.00
- 00 # 7 = Relay options: Set to 01 to turn ON the solid state relay when it reaches the low limit and turn OFF when it reaches the high limit. Set to 00 for opposite operation.
- 00 # 8 = Slave indicator output enable.
00 = No slave indicator output
01 = Send GROSS only to slave unit
02 = Send NET only to slave unit
- 00 # 9 = Optional / Printer OR Continuous data output wire cable direct to main board or ask for data output kit. (contains terminal block and strain relief for enclosure.
00= Printer output of displayed weight only to EPSON TM295 or other Epson printer.
01= Same as 00 without the EPSON format codes
02= Printer output of gross tare and net with EPSON printer codes.
03= Printer output of gross tare and net without EPSON format codes.
04= ELTRON form recall TARA for displayed weight print 05= ELTRON form recall TARAGTN for gr/tr/nt print
10= Continuous output of displayed weight 11= Continuous output of gross tare and net 20= Continuous output of GROSS weight only

MAIN CALIBRATION

NOTE: IF THE LB/KG CONVERSION IS ENABLED, THEN ASSURE THAT ALL CALIBRATION IS DONE IN POUNDS

Major Test Weight Calibration:

This procedure is done to set the initial calibration.

1. Open the scale indicator to access the CAL button.
2. Press the CAL button until the display shows. -----
3. Press and release the TARE button.
4. The display will be in the calibrate mode.
5. Assure there is no weight on the scale and press ZERO to remove the deadload.
6. When the display is zeroed, load the known weight, as in a feed bag on each white skid.
7. Press the * button to reset the calibration to the starting point.
8. Press the PRINT button to increase and TARE to decrease until the display is as close to the correct weight as you can get it. (Note: the display will jump in large amounts in the beginning and by pressing the NET/GROSS button, causes it to jump in lesser increments.)
9. If the display is showing the correct weight, go to step 11
10. Press and release the NET/GROSS button to flash ----- to step down to a lesser increment, then go to step #8.
11. If the display is showing the correct weight, press the CAL button to flash ----- and exit to the normal weigh mode.

LOAD CELL CONNECTION

ASSURE THAT THE LOAD CELL SIGNAL IS POSITIVE. A NEGATIVE SIGNAL WILL NOT REGISTER.

Summing Box TERMINAL	Summing box diagram (BACK VIEW LEFT HAND SIDE)
PIN 1 = NEG EXCITATION	ALTERNATE
PIN 2 = POSITIVE EXCITATION	BLACK
PIN 3 = POSITIVE SIGNAL	RED
PIN 4 = NEGATIVE SIGNAL	GREEN
PIN 5 = SHIELD	WHITE
	REVERSE SIGNAL LINES IF SCALE OPERATES BACKWARDS

CORRECT WIRING



DATA OUTPUT CONNECTION

*** STANDARD OUTPUTS ***
(DB9P CONECTOR)
PIN 5 ---- DATA GROUND
PIN 3 ---- DATA OUTPUT

PRINTER OUTPUT:

Set parameter number 9 for the printer type or continuous data output.

Set for single line of displayed weight or gr/tr/nt
NOTE: For ELTRON printers, use the "Create-a-Label" program to setup the label. Then name the label TARA or TARAGTN and set parameter 9 accordingly. A sample format of these two labels can be sent via email or on diskette upon request.

Baud rate 9600

8 data bits 1 stop bit no parity

In continuous output mode, the data string starts with the addition of a STX (Start of text) character at the beginning

Slave indicator output OPTION:

If a slave model RM-SE is attached, it can read the gross or net weight from the main indicator. Be sure to set the slave parameter #8 accordingly. (for example, disable the slave tare through parameter 8 if it will be receiving NET weight)

Terminal #1 ground

Terminal #2 data

The data stream is a combination of binary and Ascii data and is not easily read by a computer.