



412585 Indicator Instruction Manual

Contents subject to change without notice

Version 1.0
Issue AA

VERY IMPORTANT

You are about to replace the indicator on below scales. The new indicator must be set up and calibrated locally in order to function accurately.

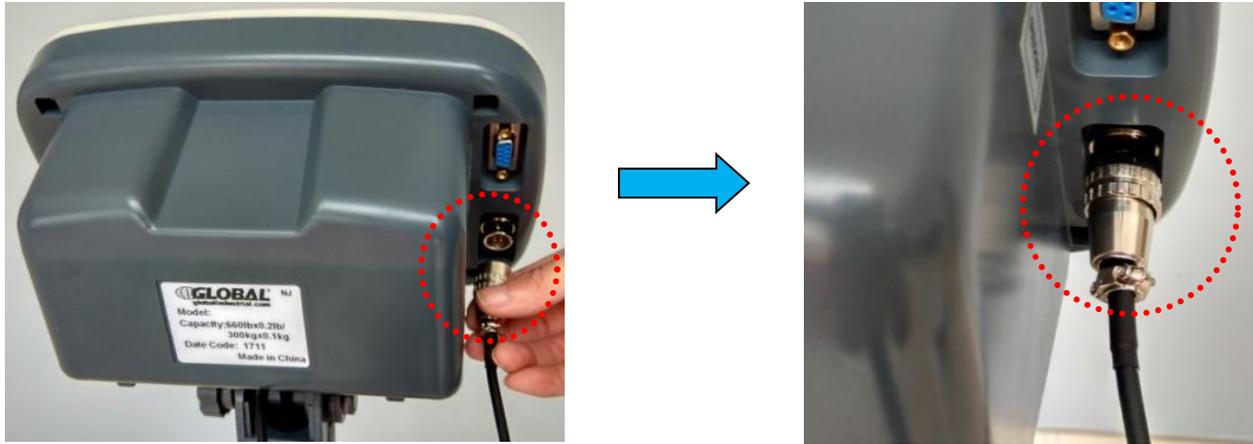
Model	Description	Picture
244241	Bench & Floor Scale 330 lb x 0.1 lb	
244242	Bench & Floor Scale 660 lb x 0.25 lb	

To do this, you need three (3) things:

1. The scale's user manual.
2. Accurate test weights (see the CALIBRATION section of the user manual for the quantity of weights necessary) to calibrate the scale.
3. The technical ability to perform the setup of the scale parameters and to do the calibration. If this is a problem, we strongly suggest that you take the new indicator, the scale base, the scale user manual and this indicator manual that you bring all four to your local industrial scale dealer (check with 411 in your area for "scale dealers") and have them perform this task. This work is not covered by any warranty.

Connect the new indicator to the scale base

Plug the female connector from scale base to the male socket on indicator.



 Snap-in connector,
DO NOT screw the
male connector into the female one, a
twisting force will cause inside wires to break.



Setup parameters in your new indicator

What we will do next is to make sure that the settings of the new indicator are the same as the settings that you see in this chart for **YOUR** scale. Just follow the following instructions, nothing more and nothing less.



Only P8 and P9 parameters need to be set, the other parameters have already been pre-set at the factory for this indicator.

When the scale is in normal weighing mode, press and hold the **ON/OFF** button and **UNIT** button for 3 seconds until 'SETP' is shown on the display.

Press **TARE** button when you see "P1" on the display, press **TARE** button again for several times until you see "P8".

Now, press the  key to change the flashing digits, press the  key to shift the flashing data entry position from left to right, and press **TARE** key to confirm and move to the next parameter setting.

Follow the same instruction to set parameter P9. When you see "P10" displayed on the indicator, press **ON/OFF** button to exit the parameter setup mode.

Below chart shows the parameter setting for all the scales that use this indicator, find your scale model and do the settings as the column shows:

Parameter	x/xy	Remark	244241 Setting	244242 Setting
P1.xy	00-15	Auto-off time: No auto-off = 00. 01-15 minutes auto-off time.	05	05
P2.xy	00,01,02	0 = Only Hold Function 1 = Only Print Function 2 = both HOLD and PRINT function (pressed down less than 3s, this key works as Print function; pressed down more than 3s, this key works as HOLD function)	02	02

Parameter	x/xy	Remark	244241 Setting	244242 Setting
P3.xy	00-50	Hold function: 0 = disable hold function 1 = hold larger weight reading 2-50 = hold reading when the variety is within $\pm 2\sim 50d$, auto release hold function when weight is below 10d and auto-hold new stable weight (more than 10d)	02	02
P4.x	0-3	0 = No RS232 and USB Function. 1 = Press PRINT key to output display data when scale is stable 2 = Press PRINT key to output gross, TARE and net weight when scale become stable; 3 = Continuously outputs display data. 4 = continuously output gross, TARE and net weight; 5 = Output display data one time when scale is stable; 6 = Output gross, TARE and net weight one time when scale become stable 7 = Bi-directional communication (the scale receives and executes commands from the HOST device)	2	2
P5.x	0-4	Communication baud rate: 0=1200bps, 1=2400bps, 2=4800bps, 3=9600bps, 4=19200bps	3	3
P6.x	0-2	Communication format: 0=8N1, 1=7O1, 2=7E1	0	0
P7.xy	00-32	Resolution select: 00=500, 08=2400, 16=7500, 24=35000, 01=600, 09=2500, 17=8000, 25=40000, 02=750, 10=3000, 18=10000, 26=50000, 03=800, 11=3500, 19=12000, 27=60000, 04=1000, 12=4000, 20=15000, 28=70000, 05=1200, 13=5000, 21=20000, 29=75000, 06=1500, 14=6000, 22=25000, 30=80000, 07=2000, 15=7000, 23=30000, 31=100000 32 = factory preset N (0<N<100000)	10	10

Parameter	x/xy	Remark	244241 Setting	244242 Setting
P8.x	0-2	Division select: 0=1, 1=2, 2=5	2	0
P9.x	0-5	Decimal point in calibration: 0= x1, 1= x0.1, 2= x0.01; 3= x0.001; 4= x0.0001; 5= 10	2	1
P10.x	0,1	Calibration unit: 0=kg, 1=lb	0	0
P11.x	0-6	Weighing units enable: 0=only kg; 4=kg or lb:oz; 1=only lb; 5=lb or lb:oz; 2=only lb:oz; 6=kg, lb, or lb:oz 3=kg or lb;	3	3
P12.x	0-7	Power-on zero-point range: 0=calibration zero -point $\pm 1\%$ FS; 1=calibration zero -point $\pm 2\%$ FS; 2=calibration zero-point $\pm 5\%$ FS; 3=calibration zero-point $\pm 10\%$ FS; 4=calibration zero-point $\pm 20\%$ FS; 5=calibration zero-point $\pm 50\%$ FS; 6=calibration zero-point $\pm 100\%$ FS; 7=No limitation	7	7
P13.x	0-9	Zero range for ZERO button: 0= Power-on zero-point $\pm 1\%$ FS; 1= Power-on zero-point $\pm 2\%$ FS; 2= Power-on zero-point $\pm 3\%$ FS; 3= Power-on zero-point $\pm 4\%$ FS; 4= Power-on zero-point $\pm 5\%$ FS; 5= Power-on zero-point $\pm 10\%$ FS; 6= Power-on zero-point $\pm 20\%$ FS; 7= Power-on zero-point $\pm 50\%$ FS; 8= Power-on zero-point $\pm 100\%$ FS; 9= No limitation	6	6
P14.x	0-2	Weight signal is in power-on zero point range, Choose which data as current power-on zero point: 0= current weight ; 1= calibration zero-point; 2=switch-off zero-point	0	0

Parameter	x/xy	Remark	244241 Setting	244242 Setting
P15.x	0-3	Weight signal is not in power-on zero point range, Choose which data as current power-on zero point: 0= current weight ; 1= calibration zero-point; 2=switch-off zero-point; 3=continuously display "0-----"	3	3
P16.x	0-8	Zero tracking range: 0=0d, no tracking; 1=+0.25d; 2= +0.5d; 3=+1d; 4=+1.5d; 5=+2d; 6=+3d; 7= +4d; 8=+5d	6	6
P17.x	0-3	Data filter intensity: 0=very weak, 1=weak, 2=middle, 3=strong	2	2
P18.x	0-9	Check weight stability range: 0=+0.5d; 1=±1d; 2=+1.5d; 3=+2d; 4=+3d; 5=+4d; 6=+5d; 7=+6d; 8=+7d; 9=+8d	1	1
P19.x	0-9	Overload limit range: 0=FS+0d; 1=FS+9d; 2=101%FS; 3=102%FS; 4=105%FS; 5=110%FS; 6=120%FS; 7=150%FS; 8=200%FS; 9=No limitation	1	1
P20.x	0-2	Backlight on-off mode selection (if it is installed): 0= Backlight is always off; 1= Backlight is always on; 2= Backlight is auto on and auto off. It is auto off after 10s when scale goes to stable and has no key operation, and it is auto on when scale is unstable or there's some key operation.	2	2
P21.x	0-4	LCD contrast level	3	3

CALIBRATION INSTRUCTIONS

Now the scale indicator must be calibrated to the scale base so that the indicator can properly interpret the information that the base is giving it.

For this you will need 2 accurate weights. If you don't have accurate weights, use another scale and some objects you have in the shop and weigh them. You need one that is more than 12.5% of the total capacity. You need another that is more than the first but less than the total capacity.

1. When in normal weighing mode with the scale at zero press and hold down **ON/OFF** and **TARE** buttons to enter the calibration mode.
2. When the indicator shows "CAL - 1", press the **TARE** button to confirm and go to next step.
3. Scale will display the max, capacity then display the division, press **TARE** button to confirm and go to next step.
4. When "CAL.P0" is displayed, the scale will begin to calibrate the zero-point of the scale. Remove all weight from the scale. Press the **TARE** button to confirm. After receiving the reasonable zero-point data, the scale will go to the next step automatically.
5. Now the scale displays "CAL.P1", then displays a defaulted standard weight of 50%FS. Put 50%FS weight on the scale platform. If you do not have a 50%FS weight, you can load 12.5%-100%FS weight on the scale, and use the  and  buttons to input the loaded weight. Press the **TARE** button to confirm the input and go to next step.
6. When scale displays "CAL.P2", then displays a default standard weight of 100% FS. Put 100%FS weights on the scale platform. If you do not have 100%FS weights, you can Load 25%-100%FS (this must be **equal or larger** than the weight from the "CAL.P1") weight on the scale. Use the  and  buttons to input the standard weight's value. Press the **TARE** button to confirm. The indicator will flash the input weight and go to next step automatically.
7. When "CAL.P0" is shown again, the scale will calibrate the zero-point again. Remove

any weight from the scale, press the **TARE** button to confirm. Now the scale will be back to the normal weighing mode after calibration successfully performed.

NOTE: If an error occurred in step 5 & 6, the scale will display “**CAL.Er**” and return back to **step 4** for re-calibration.