



412586 Indicator Instruction Manual

Contents subject to change without notice

Version 1.0
Issue AA

VERY IMPORTANT

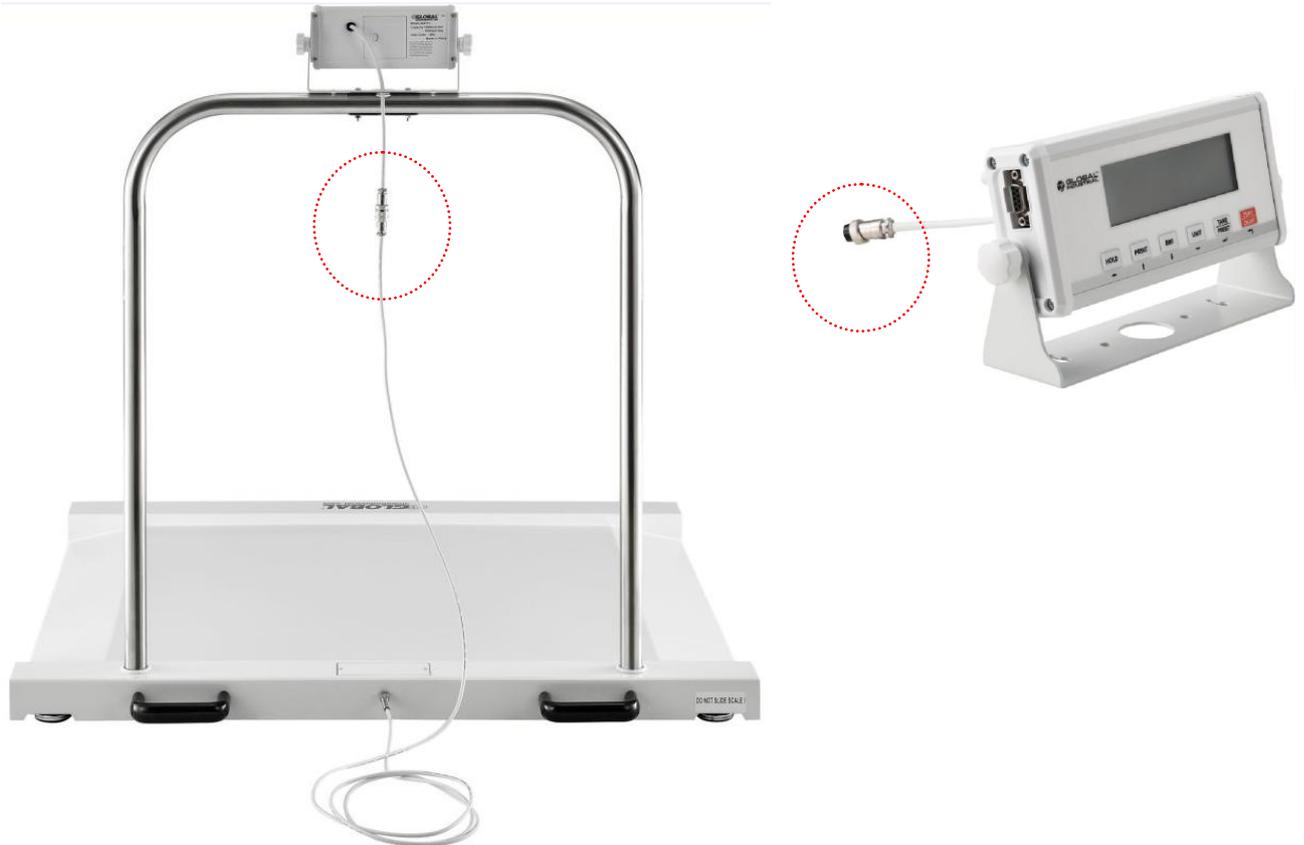
You are about to replace the indicator on below scales. The new indicator must be set up and calibrated locally in order to function accurately.

Model	Description	Picture
244701	Wheelchair Scale 1,000 lb x 0.5 lb	
244293	Handrail Medical Scale, 660 lb x 0.2 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



This is only a reference scale base picture, your scale base maybe a different one.

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



Setup CONFIG 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.

Make sure the scale platform is empty and the new indicator is well connected to the scale base.

Turn on the scale by pressing the **ZERO/ON/OFF** button.

Press and hold the **HOLD** and **ZERO/ON/OFF** button together until you see **CONFIG**.

Press **TARE/PRESET** (to enter this submenu setting), it says "00". Press **TARE/PRESET** again (to accept this submenu setting).

NOTE: You have successfully entered into the first submenu setting, checked it and if necessary, you have corrected it and have accepted it. All of the others need to be done and it is no harder than what you just did.

NOTE: Remember that in CONFIG MODE,

- the **HOLD** key is to return to last submenu;
- the **UNIT** key is to move once to the right;
- the **PRINT** key is to move once up;
- the **BMI** is to move once down;
- the **TARE/PRESET** key is to move once enter and to accept - exit;
- and the **ZERO/ON/OFF** key twice is to EXIT the CONFIG MODE.

Now let's go back to the next submenu item.

Press down key and you will see something that looks like "reset". The options are "YES" or "NO" and your scale must say "NO". As above, press the **TARE/PRESET** key to enter the setting; if it says "NO" press **TARE/PRESET** again to accept/close, if it says "YES" use the up or down key until it says "NO" and then press the **TARE/PRESET** key.

Press the down key and you will see something that looks like "regula". The options are "None", "USA", "CANADA" and "EUROPE". DO NOT ASSUME THAT because you are in the USA for example, that this setting should be USA. Please set the setting for what it says in the column corresponding to your scale model. If it says "None", then set it to "NOPE". Press **TARE/PRESET** to accept/close.

Press down arrow and do the next one and then the next one and so on until you have done them ALL.

NOTE: If you need to go from submenu 1 to submenu 2 or from submenu 2 to options, press the **TARE/PRESET** key. If you need to go from submenu 2 to submenu 1, use the **HOLD** key. Everything else stays the same.

Once you have done them all, press **ZERO/ON/OFF** button twice to exit the CONFIG mode. The scale will automatically go to the normal weighing mode.

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



Only *Pr i n . n*, *Pr i n . d* , *SECNd.n* parameters need to be set, the other parameters have already been pre-set at the factory for this indicator.

CONFIG				
SubMenu1	SubMenu2	Option	244701 Setting	244293 Setting
<i>CFG.ON</i> <i>CFG.OFF</i>			<i>ON</i>	<i>ON</i>
<i>RESEt</i>		<i>NO</i> <i>YES</i>	<i>NO</i>	<i>NO</i>
<i>REGULA</i>		<i>NOPE</i> <i>USA</i> <i>CANADA</i> <i>EUROPE</i>	<i>NOPE</i>	<i>NOPE</i>
<i>Pr i n . n</i>		<i>100-</i> <i>100000</i>	<i>2000</i>	<i>3300</i>
<i>Pr i n . d</i>		<i>0.0001</i> <i>0.0002</i> <i>0.0005</i> <i>0.001</i> <i>0.002</i> <i>0.005</i> <i>0.01</i> <i>0.02</i> <i>0.05</i> <i>0.1</i> <i>0.2</i> <i>0.5</i> <i>1</i> <i>2</i> <i>5</i> <i>10</i> <i>20</i> <i>50</i>	<i>0.5</i>	<i>0.2</i>
<i>Pr i n . U t</i>		<i>KG</i> <i>Lb</i>	<i>Lb</i>	<i>Lb</i>
<i>SECNd.n</i>		<i>100-</i> <i>125000</i>	<i>2500</i>	<i>3000</i>
<i>INDSP</i>		<i>NO</i> <i>YES</i>	<i>NO</i>	<i>NO</i>

SubMenu1	SubMenu2	Option	244701 Setting	244293 Setting	
ከሰጠ		1-255	4	4	
ሰጠ		0-100	0	0	
AdFrሰ		AdC	AdC	AdC	
		ርሰ			
AdHኃPd		ሰ	ሰ	ሰ	
		ሃይ			
ሀሰጠ	ሃ	ሃይ	ሃይ	ሃይ	
		ሰ			
	ሌ	ሃይ	ሃይ	ሃይ	
		ሰ			
	ሰ	ሃይ	ሰ	ሰ	
		ሰ			
	ሌ ሰ	ሃይ	ሰ	ሰ	
		ሰ			
ሀ	ሃይ	ሰ	ሰ		
	ሰ				
ጠሰ	ጠ	0-100	100	100	
		ጠ.ጠ	ሃይጠ	ሃይጠ	ሃይጠ
			ርALጠ		
		LAይጠ			

SubMenu1	SubMenu2	Option	244701 Setting	244293 Setting
<i>ᄁroPᄁᄁ</i>	<i>oᄁ.iᄁᄁᄁ</i>	<i>dᄁP.oᄁr</i>	<i>dᄁP.oᄁr</i>	<i>dᄁP.oᄁr</i>
		<i>ᄁE.iGHᄁ</i>		
		<i>ᄁAL.ᄁro</i>		
		<i>LAᄁᄁ.ᄁᄁ</i>		
	<i>ᄁAᄁᄁᄁ</i>	<i>0-100</i>	<i>20</i>	<i>20</i>
<i>Aᄁᄁᄁ</i>	<i>0-100</i>	<i>56</i>	<i>56</i>	
<i>FILᄁEr</i>	<i>FLᄁ1ᄁH</i>	<i>0-255</i>	<i>40</i>	<i>40</i>
	<i>FLᄁ1ᄁᄁ</i>	<i>1-64</i>	<i>8</i>	<i>8</i>
	<i>FLᄁ2ᄁH</i>	<i>0-255</i>	<i>8</i>	<i>8</i>
	<i>FLᄁ2ᄁᄁ</i>	<i>0-255</i>	<i>240</i>	<i>240</i>
<i>FUNC</i>	<i>HoLd</i>	<i>ᄁEᄁ</i>	<i>ᄁEᄁ</i>	<i>ᄁEᄁ</i>
		<i>ᄁo</i>		
	<i>ᄁoᄁᄁᄁ</i>	<i>ᄁEᄁ</i>	<i>ᄁo</i>	<i>ᄁo</i>
		<i>ᄁo</i>		
	<i>PErᄁᄁᄁ</i>	<i>ᄁo</i>	<i>ᄁo</i>	<i>ᄁo</i>
		<i>100%</i>		
		<i>100.0%</i>		
		<i>100.00%</i>		
	<i>bᄁi</i>	<i>ᄁEᄁ</i>	<i>ᄁEᄁ</i>	<i>ᄁEᄁ</i>
<i>ᄁo</i>				

SubMenu1	SubMenu2	Option	244701 Setting	244293 Setting
FUNC	COPAR	YES	No	No
		No		
	ACCUON	No	No	No
		ANNUAL		
		AUTO		
	GEOCAL	YES	YES	YES
		No		
	WEADJ	YES	No	No
		No		

*** The setting will be limited by choice of REGUALA**

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 10% of the total capacity. You need another that is more than the first but less than the total capacity.

Let's use an example. You have a 440 lb. total capacity scale. You have a box full of bolts that by using another scale that you believe to be accurate, weighs 56.6 lbs. You have a bigger box of bolts that weighs 113.7 lbs. We will use these to calibrate the scale. Your weights might be completely different than this example and that's ok.

Go to section 6 CALIBRATION of the manual. It should be around page 27.

Make sure that the scale platform is empty.

Press and hold the **HOLD** and **ZERO/ON/OFF** button together until you see CONFIG.

Press the down arrow until you see CAL. Press **TARE/PRESET** to enter the CAL (calibration) function. It should say CAL.ON. Press TARE again. It will say "Zero". Press the

down arrow and it will say LINE. We are now ready to perform a linear calibration of the scale. The scale will calibrate at 0 lb. (CAL.P0), a calibration with a weight of 10% of full capacity (FS) (CAL.P1) and a calibration with a weight which is more than the CAL.P1 weight but less than FS.

Press **TARE/PRESET** and you will briefly see CAL.P0 and then you will see something like 0.00 lb. You have just told the indicator that the empty platform is equal to 0 lb.

Press the **TARE/PRESET** key. You will briefly see CAL.P1 and then you will see a weight appear.

Put your first weight in the center of the scale platform.

As you did above, use the right key to move laterally on the indicator and the up/down keys to change the numbers. If the scale says kg instead of lb., press and hold the **UNIT** key until you see lb.

Change the weight on the indicator to match the weight that you have out on the scale. (in the example above, this would be 56.6 lbs.) Once this is done press **TARE/PRESET**.

The scale will calculate and then stabilize. You will see End.Y and the Y will be flashing. Press the down arrow to change this to "No". Press **TARE/PRESET**.

You will briefly see CAL.P2 and then a set of numbers with one flashing. As above, put the weight in the center of the platform and use the right/left and up/down keys to change the numbers to correspond to the 2nd weight that you have prepared (in the example above 113.7 lb.).

Press **TARE/PRESET**. The scale will calculate and stabilize. If everything went well, you will see CAL.END and the scale will return to normal weighing mode and is ready for daily use.

If at any point you saw CAL.Er, this means that there was an error. Press **ZERO/ON/OFF** twice to exit CAL mode and start over. Make sure that your 1st weight is more than 10% of FS and that the 2nd weight is more than the first one but less than 100% of FS.