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## Model: OCS-M & OCS-L Hanging Crane Scales

### Factory Parameter Setup:

**50 Kgs** x 0.02 Kgs  
(110 lbs x 0.05 lbs)

FS = 05  
1d = 02  
Pt = 2  
Ab = 24  
Cd = 21  
LL = 1  
Un = 0  
OFF = 2

**300 Kgs** x 0.1 Kgs  
(660 lbs x 0.2 lbs)

FS = 03  
1d = 01  
Pt = 1  
Ab = 24  
Cd = 21  
LL = 1  
Un = 0  
OFF = 2

-----  
**100 Kgs** x 0.05 Kgs  
(220 lbs x 0.10 lbs)

FS = 10  
1d = 05  
Pt = 2  
Ab = 24  
Cd = 21  
LL = 1  
Un = 0  
OFF = 2

-----  
**500 Kgs** x 0.2 Kgs  
(1100 lbs x 0.5 lbs)

FS = 05  
1d = 02  
Pt = 1  
Ab = 24  
Cd = 11  
LL = 1  
Un = 0  
OFF = 2

-----  
**200 Kgs** x 0.01 Kgs  
(440 lbs x 0.02 lbs)

FS = 02  
1d = 01  
Pt = 1  
Ab = 24  
Cd = 21  
LL = 1  
Un = 0  
OFF = 2

**To access parameter setup mode:**

Press <F2> and hold, press <F1> and hold until “P0000” is displayed.

Press <Tare> until “P0000” is displayed.

Press <0> until ‘P0200” is displayed.

Press <Tare> until “P0200” is displayed.

Press <0> until “P0250” is displayed.

Press <Tare> until “P0250” is displayed.

Press <0> until “P0258” is displayed.

Press <MR> = “SEtUP” on display.

Note: In the parameter “SEtUP” mode: <TARE> key calls up the parameter.  
<0> key changes the value.  
<MR> key ends “SEtUP” mode.

**Parameters:**

**FS** = Scale Capacity. **02**= 2000, **03**=3000, **05**=5000, **10**=10000 etc.

**1d** = Graduation size (counts by). **01**= 1, **02**= 2, **05**= 5, **10**= 10, **20**= 20.

**Pt** = Decimal point. **0**= none, **1**= x.x, **2**= x.xx, **3**= x.xxx

**Ad**= Zero range. [Note: left digit = push to zero % and right digit = automatic zero %].  
(\*\*automatic zero is the % of capacity that the scale will automatically zero off when the scale is powered up)

**0**= OFF, **1**= 2%, **2**= 4%, **3**= 20%, **4**= 100%

Example: Ad = 24 (Push to zero is 4% and auto zero is 100%)

**Cd**= Zero tracking in divisions and display speed.

Left digit = Zero tracking in divisions: **0**= 0d, **1**= 0.5d, **2**= 1.0d, **3**= 1.5d, **4**= 2.0d, **5**= 2.5d.

Right digit = Display update speed: **0**= Slow, **1**= Average, **2**= Fast.

**LL**= Display stability: **0**= Minimum, **1**= Average, **2**= Maximum

**Un**= Power up units: **0**= Kgs, **1**= lbs, **2**= other(not used).

**OFF**= Auto shut off: **0**= manual shutoff, **1**= auto off after 15 min., **2**= auto off after 60 min.

**Press <MR> to exit parameter setup mode.**

**To access Calibration mode:**

Make sure the scale is reading in Kgs.! To change the scale units in the normal run mode: Press <MR> key and then press <HOLD> key. “Un=0” means Kgs. “Un=1” means lbs.

Press <F2> and hold, press <F1> and hold until “P0000” is displayed.

- Press <0> until “P8000” is displayed
- Press <Tare> until “P8000” is displayed.
- Press <0> until ‘P8400” is displayed.
- Press <Tare> until “P8400” is displayed.
- Press <0> until “P8410” is displayed.
- Press <Tare> until “P8410” is displayed.
- Press <0> until “P8416” is displayed.
- Press <MR> = “SCALE” on display.

[If chains, straps or other equipment is required for placement of the calibration weight(s) it should be placed on the scale at this point. An accurate weight of this equipment is not required as this will be dealt with later.]

With scale in “No Load” condition press <MR> = “CALSP”.  
Press <MR> = “-----“. [This indicates “Zero” calculation] = “LoAd 1”

Notes:

- The scale will not accept a calibration of less than 20% of scale capacity.
- Calibration MUST be performed in Kgs.** Conversion factor is **1 Kg = 2.20462 lbs.**

<b>Scale Capacity:</b>	<b>Minimum Calibration Weight:</b>
50 Kgs (110 lbs) -----	10 Kgs (25 lbs)
100 Kgs (220 lbs) -----	20 Kgs (45 lbs)
200 Kgs (440 lbs) -----	40 Kgs (90 lbs)
300 Kgs (660 lbs) -----	60 Kgs (135 lbs)
500 Kgs (1100 lbs) -----	100 Kgs (225 lbs)

- The above table indicates scale capacity and the minimum acceptable calibration weights. It should be noted that the larger the calibration weight the more accurate the calibration results.
- The scale can accept up to three calibration points to adjust for scale linearity. These are displayed as “LoAd 1”, “LoAd 2” and LoAd 3”. To use linearity correction, note that there must be a 20% increase in calibration weight between one point and the next point in order for the scale to accept that second point.

Apply the calibration weight the scale. Press <MR>. The display will show the last calibration value used.

Use the <Tare> key to select the digit to be modified and use the <0> key to change the value of that digit. When the correct weight value for the calibration weight is displayed press <MR>.

[If the display shows “\*\*\*\*\*” then the calibration weight exceeds programmed scale capacity. If the display shows “\_\_\_\_\_” then the calibration weight is too small to be acceptable.]

If the calibration was accepted the display may either advance to “LoAd 2 or “End”.

[If a second calibration point is to be used, apply the weight to the scale and press <MR>. Adjust the value on the display in the same way as the first calibration point. If the calibration was accepted the display may either advance to “LoAd 3 or “End”. If a third calibration point is to be used, apply the weight to the scale and press <MR>. Adjust the value on the display in the same way as the first and second calibration points.]

Press the <END> key.

Press and hold the <OFF> key to power down the scale display.

Remove all weight from the scale (including the equipment used to support the calibration weight(s)).

Turn the scale back “ON”.

Note that the scale will automatically search for Zero and display it. The scale is now ready to use. (The weight of the equipment used to apply the calibration weights has been eliminated from the memory.)

Note that the scale will always power up weighing in the last units displayed. Since the scale MUST be in Kgs to perform a calibration the system will power back up in Kgs. To change the scale units in the normal run mode:

Press <MR> key and then press <HOLD> key. “Un=0” means Kgs. “Un=1” means lbs. The lbs light should now be “ON”.

**For user instructions please refer to the “User Guide” supplied with scale system.**