OCS-S

High Resolution Digital Crane Scale



Technical Manual

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Please read this manual carefully before using. Version: V1.0A-1

1. Scale Configuration

- Press (), () and () together, and keep pressing these 3 keys for 1s to enter Password mode.
- Press to change digit. Long press to right scroll digit. Input password **P1258**.
- Press to confirm password, and enter Scale Configuration.
- Parameters in Scale Configuration are closely related to scale's metrology performance. It is NOT recommended to change any parameters unless you are authorized from your local representative.

Display Resolution

- PressTARE
ZERDto change resolution value.
 - Display Resolution can be set to: 000 1, 0002, 0005, 00 1, 002, 005, 0, 1, 02, 05, 1, 2, 5, 10, 20, 50.

Designed to meet the OIML R76's directive, the scale has the best (default) performance at 2000 to 3000 division.

Auto-Zero Range

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Press to enter Auto-Zero Range.

- Press **TARE** to change range.
- Auto-Zero Range can be set to: (1) (disabled), $(\pm 2\%$ FS), $(\pm 3\%$ FS), $(\pm 4\%$ FS), (1) ($\pm 10\%$ FS), (2) ($\pm 20\%$ FS), (1) ($\pm 10\%$ FS). It is set to $\pm 20\%$ FS by default.
 - Upon boot-up, scale automatically zeros.

Manual-Zero Range

- Press ito enter Manual-Zero Range. shows.
- Press **TRE** to change range.
- Manual-Zero Range can be set to: 0 (disabled), $2(\pm 2\%$ FS), $3(\pm 3\%$ FS), $4(\pm 4\%$ FS), 0 ($\pm 10\%$ FS), 20 ($\pm 20\%$ FS), 0 ($\pm 10\%$ FS). It is set to $\pm 4\%$ FS by default.
 - J Zero is allowed only when weight is within Manual-Zero range.

Zero-Tracking Range

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- Press to enter Zero-Tracking Range. **Here** shows. Press **Tere** to change range.

Enabling Zero-Tracking will enhance scale temperature and drift performance.

Zero Range

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Press **Deter** to enter Zero Range. **Shows**.

- \checkmark Press ($\mathbb{R})$ to change range.
- $\begin{array}{l} & \text{Zero Range can be set to: } (1) (\text{disabled}), (1) \\ & (\pm 0.5e), (1) \\ & (\pm 1.5e), (\pm 1.5e), (\pm 2.0e), (\pm 2.5e), (\pm 2.5e), (\pm 3.0e), (\pm 3.0e), (\pm 3.5e), (\pm 4.0e), (\pm 4.0e), (\pm 4.5e), (\pm 5.0e). \\ & \text{It is set to } \pm 5.0e \text{ by default.} \end{array}$
- Zero Range defines the range that scale must fall into before other operation becomes active. When load is removed from scale, left weight must be lighter than the value set.

Zero-Saving

Press **IDED** to enter Zero-Saving. **5** ---- shows.

Press **TARE** to change Zero-Saving status.

Zero-Saving can be set to: on(enabled), oFF(disabled). It is ſĿ set to disabled by default.

When Zero-saving is enabled, Auto Zero is disabled automatically. Scale calculates weight based on the last Zeroing action.

Anti-Motion Level

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Press (Internet Anti-Motion Level. **5** - shows. Press **TARE** to change level.

- 仑 Anti-Motion Level can be set to: (disabled), (weakest), **(**(weak), **(**(normal), **(**(strong), **(**(strongest)). It is set to weakest by default.
 - At the cost of measuring time, Anti-Motion intelligently settles down weight reading when scale is in motion. The weaker Anti-Motion is, the faster weight reading displays, but the longer it takes to get stable weight reading.

Dynamic Weighing

- $\mathbf{\nabla}$ $\mathbf{\nabla}$ ſ,
- Press (HOLD) to enter Dynamic Weighing. Press **TARE** to change Dynamic Weighing status.
- Dynamic Weighing can be set to: \mathbf{n} (enabled), $\mathbf{n} \in \mathbf{F}$ (disabled). It is set to disabled by default.

In some special application where scale's accuracy is not so important as scale's stability for weight reading and data printing, Dynamic Weighing can be enabled to settle down the weight reading faster.

Gravity Acceleration

- Press (Ref) to enter Gravity Acceleration. shows.
 Press (Ref) to change digit. Long press (Ref) to right scroll digit. Long press (Ref) to input decimal point. Input Gravity Acceleration value.
- Gravity Acceleration can be set from to: **Gravity** to **9999**. It is set to 9.794 by default.
- Adjust Gravity Acceleration, only when you use the scale in a place where acceleration of gravity is greatly different from the place where the scale is calibrated.

User Unit

- Press () to enter User Unit.) shows.
- Press to change digit. Long press to right scroll digit. Long press to input decimal point. Input User Unit value.
- User Unit can be set from to: **0000** to **9999**. It is set to 1.000 by default.
- User Unit is a named unit which is usually used in user's region, but not included in scale by default, like kg, lb, etc. It is a ratio to System Unit. For example, if User Unit is set to 1.234 and System Unit is kg, then after switching to User Unit, scale calculates weight (1000kg), and displays the calculated value (1234usr).

2. Calibration

Press (), () and () together, and keep pressing these 3 keys for 1s to enter Password mode. () shows.

High Resolution Digital Crane Scale Iechnical Manual		
\checkmark	Press to change digit. Long press \mathbf{F} to right scroll digit. Input password \mathbf{PBY} is .	
\checkmark	Press with to confirm password, and enter Calibration.	
(j)	It is NOT recommended to enter Calibration unless you are	
Ū	authorized from your local representative.	
	Calibration Unit	
\checkmark	Press to enter Calibration Unit. 🔟 shows.	
\checkmark	Press TARE to change Calibration Unit.	
Ø	Calibration Unit can be set to: // (kg), / (lb). It is set to kg by	
	default.	
_	Calibration Consists Assolution	
	Calibration Gravity Acceleration	
\checkmark	Press $\left(\begin{array}{c} \text{HOLD} \\ \text{WWT} \end{array} \right)$ to enter Calibration Gravity Acceleration.	
_	shows.	
\checkmark	Press TRE to change digit. Long press TRE to right scroll	
	digit. Long press $\left(\begin{array}{c} \text{Hold} \\ \text{WF} \end{array} \right)$ to input decimal point. Input	
	Calibration Gravity Acceleration value.	
\mathcal{C}	Calibration Gravity Acceleration can be set from to: 11100 to	
	. It is set to 9.794 by default.	
	Max. Cap.	
	Press 💮 to enter Max. Cap 🚺 shows.	
N	Press Trees to change digit. Long press Trees to right scroll	
ت	digit. Long press 🛞 to input decimal point. Input Max. Cap.	
	value.	
Μ,		

- Max. Cap. can be set from to: **()))** to **99999**.
- Do NOT attempt to set Max. Cap. greater than scale's actual capacity. Overloading causes severe harm to scale, and is very

dangerous.

Zero Detection

- \checkmark Press WP to enter Zero Detection. OPOU shows.
- Keep scale no load. Press to display weight code
- Wait until weight code is stable. Press to start weight detection. Scale automatically enters Load1 Detection.

Load1 Detection

- Shows.
- Press to change digit. Long press to right scroll digit. Long press to input decimal point. Input weight value.
- Keep load stable. Press to display weight code **23456**.
- Wait until weight code is stable. Press to start weight detection. Scale automatically enters Load2 Detection.

Load2 Detection

- I Lond shows.
 - If one weight calibration is enough, press U to exit Calibration.
- Load standard weight, press I and shows.
- Press to change digit. Long press to right scroll digit. Long press to input decimal point. Input weight value.
- Keep load stable. Press to display weight code

Wait until weight code is stable. Press () to start weight detection. Scale automatically enters Load3 Detection.

Load3 Detection

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Lond shows.

If two weights calibration is enough, press </u> to exit Calibration.

Press to change digit. Long press to right scroll digit. Long press to input decimal point. Input weight

value.

- Keep load stable. Press to display weight code
- Wait until weight code is stable. Press to start weight detection. Scale automatically exits Calibration.