OCS-S
High Resolution Digital Crane Scale

1T

14.5cm

7cm

26cm

CRANE SCALE

N   Lb   kg

0.0

STABLE   ZERO   TARE   HOLD

Technical Manual

Content

Please read this manual carefully before using.

Version：V1.0A-1

1. Scale Configuration

☑ Press [⏻] , [TARE ZERO] and [HOLD UNIT] together, and keep pressing these 3 keys for 1s to enter Password mode. *P0000* shows.

☑ Press [TARE ZERO] to change digit. Long press [TARE ZERO] to right scroll digit. Input password *P0258* .

☑ Press [HOLD UNIT] to confirm password, and enter Scale Configuration. *SCALE* shows.

ⓘ 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

☑ Press [HOLD UNIT] to enter Display Resolution. *E - - - -* shows.

☑ Press [TARE ZERO] to change resolution value.

✍ Display Resolution can be set to: *0001*, *0002*, *0005*, *0.01*, *0.02*, *0.05*, *0.1*, *0.2*, *0.5*, *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

☑ Press [HOLD UNIT] to enter Auto-Zero Range. *A - - - -* shows.

☑ Press [TARE ZERO] to change range.

✍ Auto-Zero Range can be set to: *0*(disabled), *2*(±2%FS), *3*(± 3%FS), *4*(±4%FS), *10*(±10%FS), *20*(±20%FS), *100*(± 100%FS). It is set to ±20%FS by default.

▭ Upon boot-up, scale automatically zeros.

Manual-Zero Range

☑ Press 🔲(HOLD/UNIT) to enter Manual-Zero Range. n⁻ - - - shows.

☑ Press 🔲(TARE/ZERO) to change range.

✍ Manual-Zero Range can be set to: 0(disabled), 2($\pm$2%FS), 3($\pm$3%FS), 4($\pm$4%FS), 10($\pm$10%FS), 20($\pm$20%FS), 100($\pm$100%FS). It is set to $\pm$4%FS by default.

⌷ Zero is allowed only when weight is within Manual-Zero range.

Zero-Tracking Range

☑ Press 🔲(HOLD/UNIT) to enter Zero-Tracking Range. t - - - shows.

☑ Press 🔲(TARE/ZERO) to change range.

✍ Zero-Tracking Range can be set to: 00(disabled), 05($\pm$0.5e), 10($\pm$1.0e), 15($\pm$1.5e), 20($\pm$2.0e), 25($\pm$2.5e), 30($\pm$3.0e), 35($\pm$3.5e), 40($\pm$4.0e), 45($\pm$4.5e), 50($\pm$5.0e). It is set to $\pm$0.5e by default.

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

Zero Range

☑ Press 🔲(HOLD/UNIT) to enter Zero Range. r - - - shows.

☑ Press 🔲(TARE/ZERO) to change range.

✍ Zero Range can be set to: 00(disabled), 05($\pm$0.5e), 10($\pm$1.0e), 15($\pm$1.5e), 20($\pm$2.0e), 25($\pm$2.5e), 30($\pm$3.0e), 35($\pm$3.5e), 40($\pm$4.0e), 45($\pm$4.5e), 50($\pm$5.0e). It is set to $\pm$5.0e by default.

⌷ 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 🔲HOLD/UNIT to enter Zero-Saving. $5\overline{}\text{- - -}$ shows.

☑ Press 🔲TARE/ZERO to change Zero-Saving status.

✍ Zero-Saving can be set to: $\mathbf{on}$(enabled), $\mathbf{off}$(disabled). It is 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

☑ Press 🔲HOLD/UNIT to enter Anti-Motion Level. $5tb$ - shows.

☑ Press 🔲TARE/ZERO to change level.

✍ Anti-Motion Level can be set to: $\mathbf{0}$(disabled), $\mathbf{1}$(weakest), $\mathbf{2}$(weak), $\mathbf{3}$(normal), $\mathbf{4}$(strong), $\mathbf{5}$(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

☑ Press 🔲HOLD/UNIT to enter Dynamic Weighing. $d\mathbf{y}\text{- - -}$ shows.

☑ Press 🔲TARE/ZERO to change Dynamic Weighing status.

✍ Dynamic Weighing can be set to: $\mathbf{on}$(enabled), $\mathbf{off}$(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 🔘HOLD/UNIT to enter Gravity Acceleration. $\mathbf{\mathit{G}}\text{- - - -}$ shows.

☑ Press 🔘TARE/ZERO to change digit. Long press 🔘TARE/ZERO to right scroll digit. Long press 🔘HOLD/UNIT to input decimal point. Input Gravity Acceleration value.

✍ Gravity Acceleration can be set from to: $\mathbf{0.000}$ to $\mathbf{9999}$. 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 🔘HOLD/UNIT to enter User Unit. $\mathbf{\mathit{U}}\text{- - - -}$ shows.

☑ Press 🔘TARE/ZERO to change digit. Long press 🔘TARE/ZERO to right scroll digit. Long press 🔘HOLD/UNIT to input decimal point. Input User Unit value.

✍ User Unit can be set from to: $\mathbf{0.000}$ to $\mathbf{9999}$. 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 🔘 , 🔘TARE/ZERO and 🔘HOLD/UNIT together, and keep pressing these 3 keys for 1s to enter Password mode. $\mathbf{P0000}$ shows.

☑ Press 🔲 to change digit. Long press 🔲 to right scroll digit. Input password $P8416$.

☑ Press 🔲 to confirm password, and enter Calibration. CAL shows.

ⓘ It is NOT recommended to enter Calibration unless you are authorized from your local representative.

Calibration Unit

☑ Press 🔲 to enter Calibration Unit. Un - - shows.

☑ Press 🔲 to change Calibration Unit.

↳ Calibration Unit can be set to: K_G(kg), Lb(lb). It is set to kg by default.

Calibration Gravity Acceleration

☑ Press 🔲 to enter Calibration Gravity Acceleration. G - - - - shows.

☑ Press 🔲 to change digit. Long press 🔲 to right scroll digit. Long press 🔲 to input decimal point. Input Calibration Gravity Acceleration value.

↳ Calibration Gravity Acceleration can be set from to: 0000 to 9999 . It is set to 9.794 by default.

Max. Cap.

☑ Press 🔲 to enter Max. Cap.. 00000 shows.

☑ Press 🔲 to change digit. Long press 🔲 to right scroll digit. Long press 🔲 to input decimal point. Input Max. Cap. value.

↳ Max. Cap. can be set from to: 00000 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

☑ Press 🔲(HOLD UNIT) to enter Zero Detection. **LoRd0** shows.

☑ Keep scale no load. Press 🔲(HOLD UNIT) to display weight code **12345** .

☑ Wait until weight code is stable. Press 🔲(HOLD UNIT) to start weight detection. Scale automatically enters Load1 Detection.

Load1 Detection

☑ **LoRd1** shows.

☑ Load standard weight, press 🔲(HOLD UNIT) . **00000** shows.

☑ Press 🔲(TARE ZERO) to change digit. Long press 🔲(TARE ZERO) to right scroll digit. Long press 🔲(HOLD UNIT) to input decimal point. Input weight value.

☑ Keep load stable. Press 🔲(HOLD UNIT) to display weight code **23456** .

☑ Wait until weight code is stable. Press 🔲(HOLD UNIT) to start weight detection. Scale automatically enters Load2 Detection.

Load2 Detection

☑ **LoRd2** shows.

☐ If one weight calibration is enough, press 🔲(⏻) to exit Calibration.

☑ Load standard weight, press 🔲(HOLD UNIT) . **00000** shows.

☑ Press 🔲(TARE ZERO) to change digit. Long press 🔲(TARE ZERO) to right scroll digit. Long press 🔲(HOLD UNIT) to input decimal point. Input weight value.

☑ Keep load stable. Press 🔲(HOLD UNIT) to display weight code **34567** .

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

Load3 Detection

☑ $LoAd3$ shows.

☐ If two weights calibration is enough, press 🔘 to exit Calibration.

☑ Load standard weight, press 🔘 . 00000 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 45678 .

☑ Wait until weight code is stable. Press 🔘 to start weight detection. Scale automatically exits Calibration.