

*For the work object, STC-02 provides the counts of cycles (finished products), screw types, and the screw number of each screw type to prevent leaving out some of the screws unfastened.*

## Features of Digital Type STC-02 Screw Counter

Fitted with CLT-50 power control, can be used for HIMAX TL/T series electric screwdriver. With screw counting function, it can preset the lock screw quantity required for the work piece to avoid missing out unlocked screws.

- Can set 1-99 types of screws for the single work piece.
- Can set 1-99 screw counts for every type of screw that preset for the work piece.
- Each time when finishing a work piece, the counter will be auto reset and immediately ready for next turn of operation.
- To avoid repeated counting, the counter has time judge function. (Will not count for the repeated locking operation on the same screw in a short period of time.)
- It can adjust time judge function according to the degree of difficulty of screw locking operation.
- Automatically lock the keyboard to prevent inadvertent presses.
- Prevent error counting and more other functions, convenient and practical.

## Illustration of Functions

### 1. CYCLE COUNT DISPLAY WINDOW

Display the accumulated amount of the finished products up to four digits (range from 0000 ~ 9999 )



### 2. SCREW COUNT DISPLAY WINDOW

Display the number of screws needed to be fastened on the working object (range from 00 ~ 99)

### 3. SW1

Reset the cycle count

### 4. SW2

Reset the screw count to the preset value for current type of screw

### 5. SW3

Add 1 to the displayed screw count ( up to the preset value)



### 6. SGN

Screw counting signal light

### 7. SW2+SW3 Lock

Under normal operational mode, press SW2 and SW3 at the same time to lock the keyboard.


When the keyboard locked, press all the function keys will be effective less, and the LED display will show "Lock".

To unlock the keyboard, press SW2 and SW3 together again. With no operation, keyboard will be automatically locked after 10 seconds.

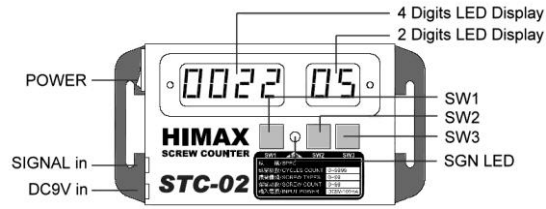
### 8. Function Setting

Under normal operational mode, hold down SW1 for 3 seconds to start function setting process. Please see Function Setting Process.

## Operating Instructions

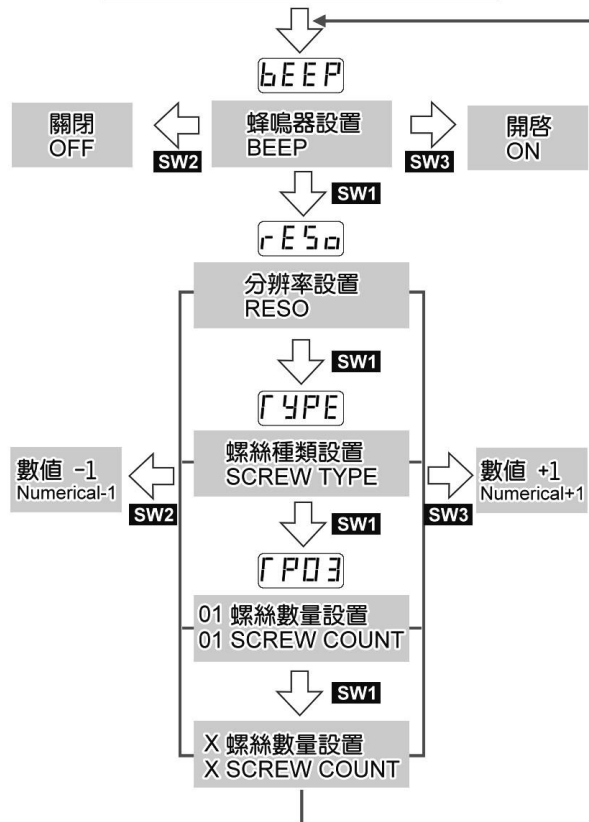
1. Refer to Function Setting Process to set screw types and screw numbers. The screw number for the current screw type will be shown on **Screw Count Display Window** (2 digits).
2. Check whether the number on the **Cycle Count Display Window** (4 digits) is correct. Press **【SW1】** key to reset.
3. Set screw operational resolution  (duration between two fastened screws on the same work object) (0.1 ~ 9.9 seconds)
4. During the operation, every time a brake lock signal is received from the power controller, the **【 SGN 】** light up and automatically decrement "1" from the number on the **Screw Count Display Window**. ( Reverse count)
5. When the count on **Screw Count Display Window** is decremented to "0", it will be reset to the preset screw number of next screw type (Short beep if Buzzer is ON)
6. When the count of last screw type is finished, the count on the **Cycle Count Display Window** will be incremented automatically by "1" (Long beep if Buzzer is ON) and the count on the **Screw Count Display Window** will be reset to the preset screw number of the first screw type.
7. When screws are fastened improperly and required to re-do the operation, press **【SW3】** key to increment the number on the **Screw Count Display Window** by 1 (up to the preset value)
8. Please press the **【SW2】** key to return to the preset screw number for the current screw type.
9. When under normal operation and Buzzer is on, hold down **【SW1】** for 3 seconds to start parameter setting process with long beep (short beep if pressing wrong key)

## Function Setting Process



同時按住 SW2 + SW3 解鎖  
Press SW2 + SW3 to unlock

長按 SW1 超過3秒進入功能設定模式  
Hold down SW1 for 3 second to enter  
FUNCTION SETTING



## Product Specification

Cycle count range	0000 ~ 9999
Screw type range	00 ~ 99
Screw count range	00 ~ 99
Input signal	Contact signal (such as the Relay of mechanical switches, non-contact signal of semi-conduct and so on ...)
Power	DC 9V / 100 mA
Volume	126mm * 80mm * 25mm
Weight	0.38Kg
Accessories	Power wire *1, Signal wire *1, Support frame *1
Optional	External 9V Adaptor HX0910

### How to link to HIMAX CLT-50 Power Supply

- ① Use the accompanying signal wires to attach the SIGN IN port of this device to the CLT-50 SIGN /OUTPUT port
- ② Use the accompanying power wire to connect the DC-IN port of this device to the CLT-50 DC /OUTPUT port.



The backplane of CLT-50

# HIMAX®

# HIMAX SCREW COUNTER



## STC-02

Operational Manual  
Caution! Please read before operation.