

# 螺絲計數器

SCREWCOUNTER

KCT-01

KCT-04

奇力速工業股份有限公司  
KILEWS INDUSTRIAL CO.,LTD

### Characteristic

It can check on the spot as equipment (forgetting to fasten prevention counter) which proper bolting is performed or prevents bundle forgetting by bolting work of a screw.

It can correspond to electric driver of exchange 110V or 220V or DC-Type Screw driver, and the quality of everyday bolting work improves. The feature

\*It is lightweight and compact, and it clamps in the code of electric driver, and can install and check near the worker.

\*If the set number of bolting books is reached, an end will be told at a buzzer.

\*Count cancellation can be performed.

\*The remaining quantity of the number of bolting books is told. (If operation is left on the way, you will be told about at an alarm buzzer. Setting time 0 - 30 seconds)

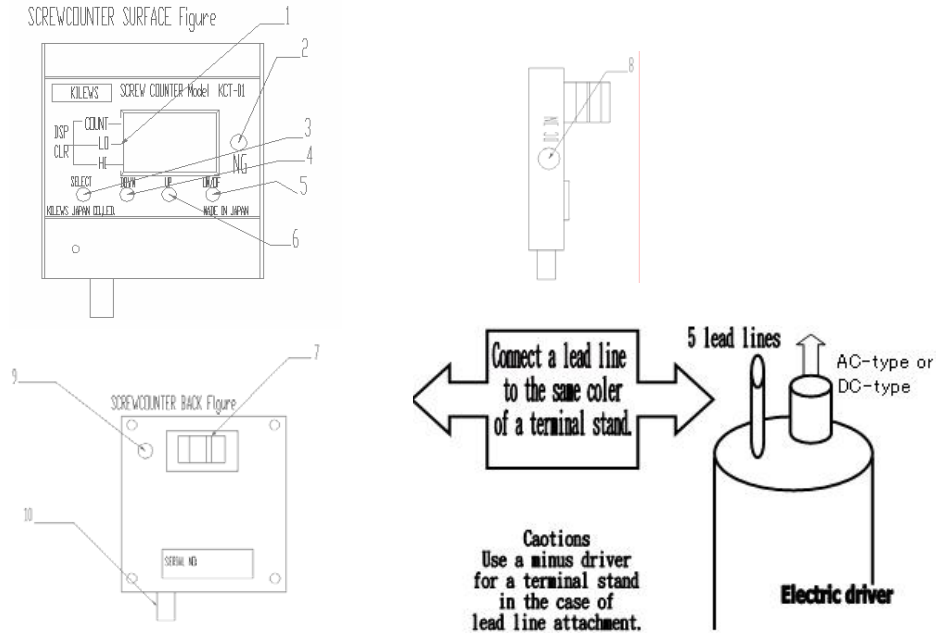
### KCT-01 Function

Each function		Setting time and a numerical value	Functional explanation	Buzzer sound / LED red blink
A setup of the number of counts		1 - 99	Bolting books	
Count system			The system which reduces a display of the number of setup.	
LO		0.0 - 2.0 seconds /0.1 or 0.2	When a torque rise is early carried out from setting time.	3 buzzer sound /LED blink
HI		0.0 - 9.0 seconds	After starting, when setting time is exceeded.	5 buzzer sound /LED blink
Display clear time	FINISH SIGNAL TIME	0.5 - 3.0 seconds	Display time after reaching the number of setting books, until it clears.	The buzzer and LED
NG count cancellation		1 count	The number of counts returns one count in inversion operation immediately after a torque rise.	
Alarm buzzer	A mistaken setup		$LO \geq HI$	Buzzer sound continuously
	Standby time	0 - 30 seconds	When it is left, without reaching to the number of setting books.	buzzer sounds continuously

### KCT-01 Specification

Display	LCD digital display
Automatic power save	90 minutes no use, automatically switch off.
Charge system	The state which connected AC adapter, or a battery drive.
In the case of a battery drive	3600 or more continuation bolting (at the time of the fully charge)
Charger	INPUT:50/60Hz AC100V or 120V or 230V OUTPUT:DC7.5v
Success-or-failure judging	O.K Buzzer sound / NG buzzer sound and LED red blink
A size/weight	80(H) x75(W) x13(D)/94g
Application electric driver	FOR KILEWS ALL MODE AUTOMATIC ELECTRIC DRIVER
Attachment	Code clamp (with a lock)
The connection method	Refer to the last page figure.

## Appearance



Appearance	Function
①Display	The number of counts and setting are displayed.
②N.G. lamp	It blinks at the time of No Good.
③SELECT key	It is used when starting a setting operation or shifting at each mode at the time of a setup. (push 10 seconds or more)
④DOWN key	It is used when reducing a setting numerical value.
⑤POWER Switch	ON/OFF
⑥UP key	It is used when increasing a setting numerical value. In the case of the work sensor ON. It is used as chattering prevention of a time setting sensor. (it pushes 3 seconds or more)
⑦CLAMP	
⑧AC ADAPTOR Terminal	Power supply
⑨RESET switch	RESET SWITCH
⑩Electric driver output	Connecting the Counter cord

### KCT-01 Operation procedure and a setup

- (1) Connect five lead lines from electric driver to the terminal of SCREW COUNTER.  
(The color display has been carried out to the terminal stand.  
The lead line color of driver is connected to the terminal of the same color.)
- (2) Clamp SCREW COUNTER in the code of electric driver.  
(Set to the position which can be checked)
- (3) AC adapter of an appending article is connected to the connector of DC IN.  
The plug of AC adapter is inserted in AC power-supply wall socket.
- (4) A power-supply switch is turned on.
- (5) Go into Setup. (Pushing ON/OFF-key 1 second or more, when carrying out setting change on the way.  
It returns in early stages.)

### Key operation

ON/OFF key	- ON/OFF of a power supply - Use it for the reset key in the case of being in the middle of a setup or operation, and returning first.(Push 3 second or more)
SELECT key	- It is used when starting setting operation. - It is used when shifting at each mode at the time of a setup.
UP key	-It is used when raising a setting numerical value.
DOWN key	-It is used when lowering a setting numerical value.
UP+DOWN key	-ON/OFF change of buzzer sound

### UP+DOWN key

ON	It will warn the operator by sound when screwing a nut, work completion or any fault happened.
OFF	It will warn the operator by sound when any fault happened.
FF	It will warn the operator by sound when work completion or any fault happens
EF	It will warn the operator by sound only when screwing a nut or work completion.

### KCT-01 Operation procedure

- (1) Push and Turn on Power-Supply Key.
- (2) Pushing SELECT key is continued until a buzzer sounds. (For about 10 seconds)
- (3) The mark of — is displayed beside the numerical value of a liquid-crystal screen.
- (4) As for the first display, a mark is displayed on the place of COUNT.
- (5) Set up the number of bolting books by UP or DOWN key.
- (6) Push SELECT key.
- (7) A mark moves to the place of LO and perform a time setup of LO by UP or DOWN key.
- (8) Push SELECT key again.
- (9) A mark moves to the place of HI and perform a time setup of HI by UP or DOWN key.
- (10) Push SELECT key again.
- (11) A mark moves to the place of FINISH SIGNAL TIME, and set up display clear time by UP or DOWN key.
- (12) A setup is ended above. In addition, after a display clear time setup, if SELECT key is pushed within 5 seconds, it can set up continuously to apply change immediately after a setup.  
When 5 seconds or more pass after a display clear time setup, perform operation procedure from (2).

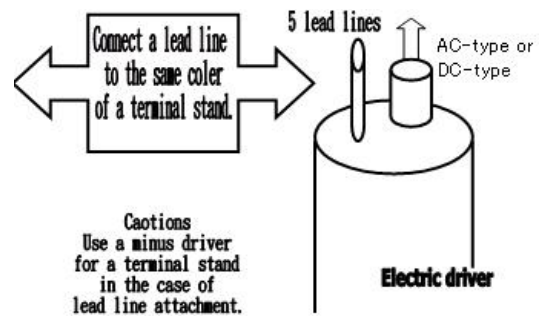
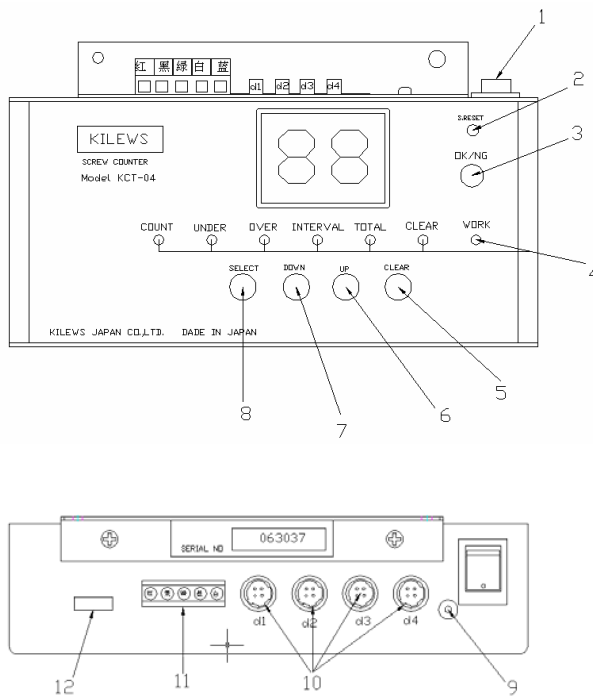
### KCT-04 Function

Each function	Setting time and a numerical value	Functional explanation	Buzzer sound / LED red blink
A setup of the number of counts	1 - 99	Bolting books	
Count system		The system which reduces a display of the number of setup.	
UNDER (LO)	0.0 - 2.0 seconds /0.1or less(0.01-0.09)	When a torque rise is early carried out from setting time.	3 buzzer sound /LED blink
OVER (HI)	0.0 - 9.0 seconds	After starting, when setting time is exceeded.	5 buzzer sound /LED blink
Display clear time	FINISH SIGNAL TIME 0.5 - 3.0 seconds	Display time after reaching the number of setting books, until it clears.	The buzzer and LED
NG count cancellation	1 count	The number of counts returns one count in inversion operation immediately after a torque rise.	
Alarm buzzer	A mistaken setup	LO ≥ HI	Buzzer sound continuously
	Standby time	0 - 30 seconds	When it is left, without reaching to the number of setting books. buzzer sounds continuously

## KCT-04 Specification

Display	LED digital display
Automatic power save	90 minutes no use, automatically switch off.
Power supply	Ni-Cd chargeable battery 1.2x3cells 110mAh
Charge system	The state which connected AC adapter, or a battery drive.
In the case of a battery drive	3600 or more continuation bolting (at the time of the fully charge)
Charger	INPUT:50/60Hz AC100V or 120V or 230V OUTPUT:DC7.5v
Success-or-failure judging	O.K Buzzer sound / NG buzzer sound and LED red blink
A size/weight	92(H) x160(W) x40(D)/360g
Application electric driver	FOR KILEWS ALL MODE AUTOMATIC ELECTRICDEIVER
Attachment	Code clamp (with a lock)
The connection method	Refer to the last page figure.

## Appearance



Appearance	Function
①POWER SWITCH	ON/OFF
②RESET KEY	System reset
③OK/N.G Light	OK: green light flashing when complete for work NG: red light flashing when problems occur during work
④function Light	Mode light for operators' selection
⑤CLEAR	When problem occurs, press this key over 3 seconds to clear the wrong numbers and warning.
⑥UP Key	For increasing the number
⑦DOWN Key	For decreasing the number
⑧SELECT	Press this key for entering mode selection for the other functions
⑨ AC Adaptor Terminal	Electric supply for the machine to maintain its work
⑩CONNECT	The connect wire for screwdrivers and inductors
⑪Input/Output	Input/Output interface
⑫MODE switch	Select for counting mode and inducing

### Data Input/ output

Pin color	FUNTION
Red	RESET ( pair with Earth wire to GREEN inlet)
Black	Sensor inlet ( pair with Earth wire to GREEN inlet)
Green	Earth ( - )
White	Data output after each screwdriver work completed. ( pair with Earth wire to GREEN inlet)
Blue	Error message output ( pair with Earth wire to GREEN inlet)

### UP+DOWN key

ON	It will warn the operator by sound when screwing a nut, work completion or any fault happened.
OFF	It will warn the operator by sound when any fault happened.
FF	It will warn the operator by sound when work completion or any fault happens
EF	It will warn the operator by sound only when screwing a nut or work completion.

### The Function Modes

1	COUNTING	ON : accumulatiing	OFF : subtracting
2	SENSOR SWITCH	ON : no sensor control	OFF : with sensor control
3	TOOL SEQUENCE	ON : Not required	OFF : Seq. D1 to d4 required
4	DETECT METHOD	ON : Pulse	OFF : Time

### Key operation

Function	Setting time and a numerical value	Functional explanation	Buzzer sound / LED red blink
COUNT	1~99	Etting the rundowns for each cycle of work	
UNDER	0.0~2.0/SEC	Setting the minimum second for each rundown	Red NG light blink with buzzer sounds 3 times.
OVER	0.0~9.0/SEC	Setting the maximum second for each rundown	Red NG light blink with buzzer sounds 5 times. -
INTERVAL	0.0~30	Setting the interval second between each rundown	With ceaseless red NG light and buzzer sounds.
TOTAL	0.0~9.9/CEN	Setting the completion minutes for each cycle of work	With ceaseless red NG light and buzzer sounds.
CLEAR	0.5~3.0/SEC	Setting the signal light and buzzer timing when works completed by each screwdriver	

※When 'UNDER' timing is set less than 'OVER', the counter won't work and buzzer will sound ceaseless until the setting is corrected.

### KCT-04 Function

- (1) SELECT THE SCREWDRIVER - Press the 'SELECTION' button to get into SETTING modes. Press the 'UP' or 'DOWN' for select each screwdriver among d1~d4 to be setting.
- (2) SETTING THE RUNDOWNS FOR EACH CYCLE OF WORK - Press 'SELECT' again, the 'COUNT' light is turned on and ready for setting the desired rundowns of each screwdriver by pressing 'UP' or 'DOWN' buttons.
- (3) SETTING THE MINIMUM SECOND FOR EACH RUNDOWN - Press 'SELECT' again, the 'UNDER' light is turned on and ready for setting the minimum second (0.1~0.2 second in normal) of every rundown by pressing 'UP' or 'DOWN' buttons.
- (4) SETTING THE MAXIMUM SECOND FOR EACH RUNDOWN - SETTING THE MAXIMUM SECOND FOR EACH RUNDOWN - Press 'SELECT' again, the 'OVER' light is turned on and ready for setting the maximum second (adjustment depend on height of the screw employed) of every rundown by pressing 'UP' or 'DOWN' buttons.
- (5) SETTING THE INTERVAL SECOND BETWEEN EACH RUNDOWN - Press 'SELECT' again, the 'INTERVAL' light is turned on and pressing 'UP' or 'DOWN' buttons to set the waiting seconds between each rundown.  
02---04---06---08---10.....3.0----0.0----0.2.....
- (6) SETTING THE COMPLETION MINUTES FOR EACH CYCLE OF WORK - Press 'SELECT' again, the 'TOTAL' light is on and press 'UP' or 'DOWN' buttons to set the sum up timing of whole cycle of works by all screwdrivers.

