DK-5000 SERIES MANUAL

INSTRUCTION MANUAL

DK-5005C

TYPE **C**

ATTENTION! Please note that misuse of this device may lead to injury to the user or damage to the device. Please observe all safety precautions and warnings in this instruction manual.

● Customer Service

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Thank you for purchasing our product, DK-5005C.
Please confirm that you have the correct device by checking the product label.
Please read this instruction manual carefully before using this device to ensure correct usage.
Please keep this instruction manual for future reference.

■ INTRODUCTION

DK-5005C is an electronic tally device which logs the count values of five (5) count keys and the total count at a preset log interval. Logs are saved with a corresponding timestamp, and a collection of logs stored is called a *Record*. It has a built-in calendar clock for timestamp.

※ **Important!**

This device requires **DK-5000 Mieruzzo Software** to view *Record* details. The software runs on Windows 7, 8 or 8.1 OS.

Please use a micro B-to-A USB cable to connect the DK-5005C device to a computer.

The companion software enables user to download, delete and save data from the device to a computer. The software also enables real-time display of the device on a computer.

■ POWER SUPPLY

The device can be powered through three power supply options. The list below shows the power supply options according to priority of usage:

► 5.5mm DC Jack @9V, 50mA ※
► USB Power @5V, 100mA
► 4pcs. AAA Battery

※ Please use Line Seiki AC/DC Power Adapter for DK-5000 (sold separately) to power the device via DC jack.

Upon initial connection to a power supply or resumption of power, the device will perform the start-up routine, blinking all LCD segments for 2 – 7 seconds. After the start-up routine, the device will proceed to **Date & Time Setting Mode** to set the device *Date & Time*.
(See **KEY OPERATION** for details.)

※ **Important!**

Calendar clock will not update when there is no power supply available. Make sure that there are batteries installed before disconnecting both DC jack and USB power supply to maintain calendar clock function. When DC jack or USB power is connected, power is not supplied from the batteries and battery charge will not be drained.

When operating only on batteries, Alkaline type batteries can provide at least up to 200 hours of operation, under normal operating condition.

icon will appear on the upper right corner of the display to indicate a low battery condition.
icon will blink continuously under following conditions:

► when battery is almost empty
► when no battery is installed while the device is powered by DC jack and/or USB

If all power supplies are removed, the last device *Date & Time* will be stored in a temporary memory. If device is in **Recording Mode**, *Record* will be saved. When the device is powered ON again, it will resume operation in **Date & Time Setting Mode** using the last saved *Date & Time* values.
(See **KEY OPERATION** for details.)

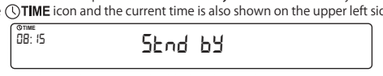
■ OPERATION MODES

This device has four main operation modes, namely:

① **Standby Mode** ② **Count Mode** ③ **Setting Mode** ④ **Memory Recall Mode**

● Standby Mode

This is the default operation mode. **Standby Mode** is indicated by the displayed text "Standby". The **TIME** icon and the current time is also shown on the upper left side of the display.

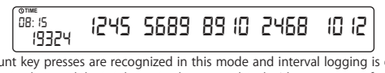


Logging of count key press is disabled in this mode.

By pressing the corresponding key combination of [F] with [1], [2], [3] or [4], other operation modes can be accessed from **Standby Mode**. By holding down [#], **Count Mode** can be enabled.
(See **KEY OPERATION** for details.)

● Count Mode

Count Mode is indicated by the displayed count values for each count key and the total count. The **TIME** icon and the current time is also shown on the upper left side of the display.



Count key presses are recognized in this mode and interval logging is enabled. The individual count values and the total count value are updated with every press of corresponding count key.

By pressing the corresponding key combination of [F] with [1], [2], [3] or [4], other operation modes can be accessed from **Count Mode**. By holding down [#], **Standby Mode** can be enabled.
(See **KEY OPERATION** for details.)

● Setting Mode

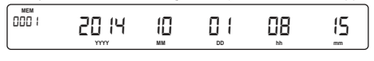
There are three **Setting Modes**:

a.) **Date & Time Setting**
b.) **Device ID Setting**
c.) **Log Interval Setting**

When accessed from **Standby Mode**, *Date & Time*, *Device ID* and *Log Interval* can be viewed and edited, respectively. When accessed from **Count Mode**, editing is disabled.
(See **KEY OPERATION** for details.)

● Memory Recall Mode

This mode enables viewing of all saved *Records* on the device memory. **Memory Recall Mode** is indicated by **MEM** icon and the 4-digit *Memory No.* shown on the upper left side of the display.



Memory No. represents the memory location of the *Record* displayed. When a *Record* is deleted, the memory location of each *Record* shifts and *Memory No.* is changed accordingly.

There are two display modes available for viewing stored *Records*:

a.) **Timestamp Display**
b.) **Count Value Display**

Timestamp Display mode will show the date and time when the *Record* is saved.
Count Value Display mode will show the individual count values and the total count.

Memory Recall Mode also provides an option to clear all *Records* saved in the device memory.
(See **KEY OPERATION** for details.)

■ SOFTWARE

This device works with **DK-5000 Mieruzzo Software**. The software is downloadable for free from the Line Seiki website.

The software enables the user with the following functions:

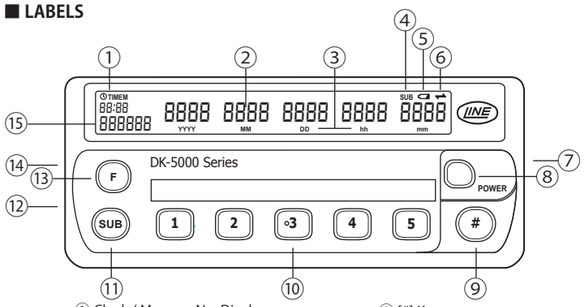
- download the data from the device
- export the downloaded data to a .XLS or .CSV file
- delete records stored in the device
- sync device time to computer system time
- change Device ID

The software also has an **Acquire Present** function which enables the current count values on the device to be displayed on the computer.

Please refer to the DK-5000 Mieruzzo Software User Manual for more details.

When the device is connected to the software, the icon will appear on the upper right corner of its display.

■ LABELS



① Clock / Memory No. Display
② Count Display
③ Date/Time Icon
④ Subtract Icon
⑤ Battery Warning Icon
⑥ Software Link Icon
⑦ 5.5 mm DC Jack
⑧ Power Key
⑨ [#] Key
⑩ Count Key
⑪ Subtract Key
⑫ Strap Hole
⑬ Function Key
⑭ USB 2.0 Port
⑮ Total Count Display

■ KEY OPERATION

● POWER KEY

Power (On/Off)

♦ To switch ON, hold down [POWER] for 1 second.

The default power up display is **Standby Mode** showing the text "Standby" on the display.

♦ To switch OFF, hold down [POWER] for 3 seconds.

When switching off from **Count Mode**, the *Record* will be ended and saved before switching off.

● [F] KEY

Date & Time Setting

♦ Hold down [F] and press [1] to enter the **Date & Time Setting Mode**. The display will show the *Date* and *Time* value in the format below: "YYYY-MM-DD-hh-mm".

The *Year, Month, Day, Hour* or *Minute* values can be incremented by pressing [1], [2], [3], [4] or [5]. Holding down [1], [2], [3], [4], or [5] will continuously increment these values, respectively.

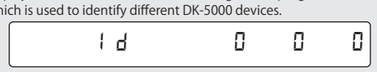
♦ Press [F] to leave the **Date & Time Setting Mode**.

Note :
＊ Editing of *Date & Time* is disabled when accessed from **Count Mode**.

● [F] KEY

Device ID Setting

♦ Hold down [F] and press [2] to enter the **Device ID Setting Mode**. The display will show the *Device ID*, a 3-digit user-programmable number which is used to identify different DK-5000 devices.



Each digit of the *Device ID* can be incremented by pressing [3], [4] or [5]. Holding down [3], [4] or [5] will continuously increment each digit.

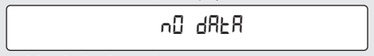
♦ Press [F] to leave the **Device ID Setting Mode**.

Note :
＊ Editing of *Device ID* is disabled when accessed from **Count Mode** or when there is an active connection to the companion software.

Memory Recall

♦ Hold down [F] and press [3] to enter **Memory Recall Mode**. The display will show the *Memory No.* and *Timestamp* of the newest *Record* saved.

If there is no *Record* available, the display will show "no data".



♦ Press [1] to display the next *Record*.
♦ Press [2] to display the previous *Record*.
♦ Press [3] to toggle **Timestamp Display** mode.
♦ Press [4] to toggle **Count Value Display** mode.
♦ Press [5] to enter **Memory All Clear Mode**.
♦ Press [F] to leave the **Memory Recall Mode**.

Memory All Clear

♦ When in **Memory All Clear Mode**, the display will show the "All Clear" options.

♦ Hold down [4] for 1 second to select "Yes". All *Records* will be deleted and device will return to **Memory Recall Mode**, "no data" will be displayed. While clearing the memory, device will show "All Data to Clear".

♦ Press [5] to select "No". No *Record* will be deleted and the device will return to **Memory Recall Mode**.
♦ Press [F] to leave **Memory All Clear Mode**.

Note:
＊ **Memory All Clear Mode** is disabled when **Count Mode** is active.
＊ **Make sure to keep the device powered while clearing memory or deleting *Records* to avoid risk of data corruption.**

Log Interval Setting Mode

♦ Hold down [F] and press [4] to enter the **Log Interval Setting Mode**. The display will show the interval logging options.

♦ Press [1] to select "Reset" *Logging Type*. With this *Logging Type*, count values will be reset to "0" after saving a data log.
♦ Press [2] to select "Continuous" *Logging Type*. With this *Logging Type*, count values will not be reset to "0" after saving a data log.
♦ Press [4] or [5] to increment the *Hour* or *Minute* value of the *Log Interval*, respectively. Holding down [4] or [5] will continuously increment the *Hour* or *Minute* value, respectively.
♦ Press [F] to leave **Log Interval Setting Mode**.

Note:
＊ The default settings are: *Logging Type* is set to "Continuous" and *Log Interval* is set to 00:15 (hh:mm).
＊ Editing of log interval settings are disabled when accessed from **Count Mode**.

● [#] KEY

Start/End Record

♦ While in **Standby Mode**, hold down [#] for 1 second to start recording of data. A *Record* will be created with corresponding *Start Timestamp*. The device will enter **Count Mode** and logging is enabled. The display will show "0" count value.

1.) The *Record* will be a collection of data logs composed of count values and corresponding *Timestamp*. Data logs will be saved in the *Record* periodically at a preset log interval.

♦ While in **Count Mode**, hold down [#] for 1 second again to end recording of data. The *Record* will be terminated and saved with corresponding count values and *End Timestamp*.

2.) The *Memory No.*, indicated by **MEM**, will increment by 1 everytime a new *Record* is saved.

3.) While saving, the display will blink twice showing the *Memory No.* and corresponding *Timestamp*, then the count values saved.

● [#] KEY

4.) After saving, the device will enter **Standby Mode** and data recording is disabled.

Note :
＊ The *Record End Timestamp* will be used to identify *Records* in **Memory Recall Mode** and as *Record Name* when data is downloaded on the companion software.

● COUNT KEYS

Count Mode

♦ While in **Count Mode**, press [1], [2], [3], [4] or [5] to increment the count values of corresponding count keys.

Note:
＊Make sure to push the count keys properly to avoid missed count.

● [SUB] KEY

Count Mode

♦ Hold down [SUB] and press [1], [2], [3], [4] or [5] to decrement the count values of corresponding count keys.

Setting Mode

♦ Hold down [SUB] and press [1], [2], [3], [4] or [5] to decrement values being edited such as *Year, Month, Day, Hour, Minute,* or *Device ID* digit values.
♦ Holding down [SUB] and also holding down these keys will continuously decrement the values being edited.

Note:
* While [SUB] is held down, the "**SUB**" icon will appear on the upper right corner of the display.

■ MEMORY CAPACITY

The device memory can save up to 250 records, which is achieved when only a maximum of 192 logs are made per record through the log interval.

A memory low indicator MEM LO will be blinking twice every 5 seconds when the size of memory used is 80% or more.

A memory full indicator MEM FULL will be blinking when 100% of memory is used.

※ **Important!**

When memory is full, starting a new *Record* will erase the oldest *Record* to free up memory space for the new *Record* created. Location of *Records* will shift and *Memory No.* will change accordingly.

When memory is full and device is in **Count Mode**, saving a new log that requires additional memory space will erase the oldest *Record* to free up memory space. While erasing a *Record*, the device will show a "Record Data to Clear" message, and logging of count key press is temporarily disabled.

■ SPECIFICATIONS

Count Range	Display: 4-Digit 0 ~ 9999, Internal: 5-Digit 0~99999
Total Count Range	6-Digit 0~999999
Operating Temperature	0°C ~ 50°C (non-freezing)
Operating Humidity	35~85% RH (non-condensing)
Storage Temperature	-10°C ~ 60°C (non-freezing)
Dimension	70 (H) x 170 (W) x 25 (D) mm
Weight	Approx. 130g (accessories not included)
Compliance	CE, RoHS

For more details, please visit our website at **http://www.lineseiki.com**

ATTENTION!

Operation

- Do not use this device near machines that emit strong electromagnetic fields or objects that store static electricity.
- Do not drop or subject this device to strong impact.
- Do not use or store this device where it will be exposed to water or in places with wet conditions.
- Do not use or store this device where it can be exposed to high temperature and high humidity.
- See the battery case markings to ensure that the batteries are properly installed.
- Do not attempt to disassemble or modify this device.
- When using the device via USB power, avoid excessive movement to ensure that the device will not be disconnected and power will not be lost.
- The unit is shipped with protective seal on the display.

This manual was last revised May 13, 2015. 4DK5003A
Contents are subject to change even without prior notice.