# **DK-5000 SERIES MANUAL**

INSTRUCTION MANUAL

## DK-5030B

TYPE 

Thank you for purchasing our product, DK-5030B.

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-5030B is an input device which logs timestamp of thirty (30) input keys. It can save records in its memory and has a built-in calendar clock for timestamp. Its thirty input keys can be used to monitor different types of event, attribute or classification.

% Important!

This device requires DK-5000 Mieruzzo Software to view record details. The software runs on Windows 7, 8, 8.1 or 10 OS.

Please use a micro B-to-A USB cable to connect the DK-5030B 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, fresh 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

(See KEY OPERATION for details.)

## OPERATION MODES

This device has four main operation modes, namely:

 
 Standby Mode
 Recording Mode
 Setting Mode
 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.

071ME 08:15 Stad by

Logging of input key press is disabled in this mode.

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

Recording Mode

Recording Mode is indicated by the displayed number of inputs for each input key and the total inputs. The ()TIME icon and the current time is also shown on the upper left side of the display.

### 1245 5689 89 10 2468 10 12 19324

Logging of input key press is enabled in this mode. The number of inputs for each input key and the total inputs are updated with every press of corresponding input key.

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

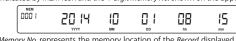
#### Setting Mode

- There are two Setting Modes:
  - a.) Date & Time Setting
  - b.) Device ID Setting

When accessed from Standby Mode, Date & Time, and Device ID can be viewed and edited, respectively. When accessed from Recording Mode, editing is disable (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.) Input Value Display

Timestamp Display mode will show the date and time when the Record is saved.

Input Value Display mode will show the number of individual inputs and the total inputs. Memory Recall Mode also provides an option to clear all Records saved in the device memory (See KEY OPERATION for details)

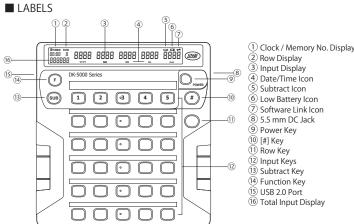
#### SOFTWARE

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

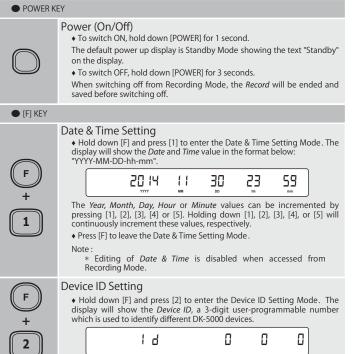
- The software enables the user with the following functions:
  - · download the data from the device
  - export the downloaded data to a .XLS or .CSV file
    delete records stored in the device
  - sync device time to computer system time
  - change Device ID

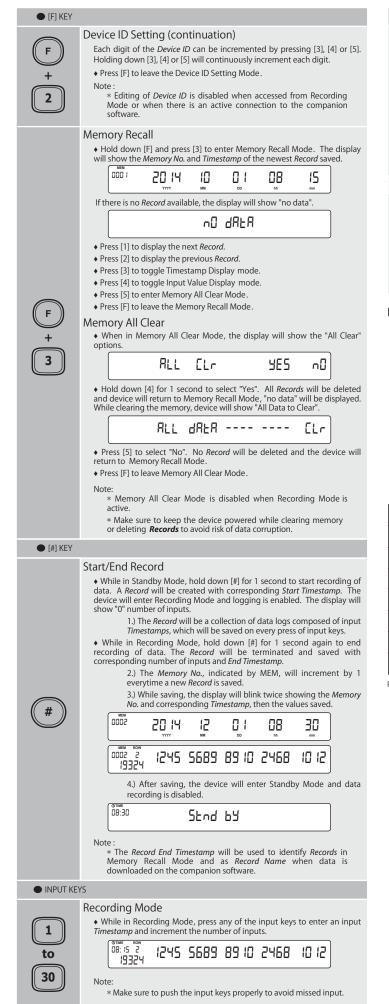
The software also has an Auto Acquire function which enables real-time display of the number of inputs displayed on the device. The display is updated every 1 second Please refer to the DK-5000 Mieruzzo Software User Manual for more details

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



KEY OPERATION





● [SUB] KEY		
SUB	Recording Mode ◆ Hold down [SUB] and press any of the input keys to decrement the number of inputs.	
+ 1 to	<ul> <li>Setting Mode</li> <li>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.</li> <li>Holding down [SUB] and also holding down these keys will continuously decrement the values being edited. Note:</li> </ul>	
ROW KEY	* While [SUB] is held down, the "SUB" icon will appear on the upper right corner of the display.	
<b>V</b> ROW KEY		
	Recording Mode, Memory Recall Mode	
$\bigcirc$	<ul> <li>While in Recording Mode or Input Value Display in Memory Recall Mode, press [ROW] to change the row displayed between Row 1 up to Row 6. Row 1 will show Input 1 – Input 5 Row 2 will show Input 6 – Input 10. Row 3 will show Input 11 – Input 15 Row 4 will show Input 16 – Input 20. Row 5 will show Input 21 – Input 25 Row 6 will show Input 26 – Input 30.</li> </ul>	

#### MEMORY CAPACITY

The device memory can save up to 250 records, which is achieved when only a maximum of 40 Timestamps are saved per record

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

A memory full indicator  $F_{\text{LLL}}$  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 Recording 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 input key press is temporarily disabled.

#### SPECIFICATIONS

C 10	
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	$-10^{\circ}C \sim 60^{\circ}C$ (non-freezing)
Dimension	186 (H) x 170 (W) x 25 (D) mm
Weight	Approx. 340g (accessories not included)
Compliance	CE, RoHS

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

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#### 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.