## Kett

### Data Logger Soft LDL-03

# **Operating Manual**

Thank you for purchasing this product. Please read the operating manual carefully and use this product properly.

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### Introduction

The "Data Logger Soft LDL-03 for L-373series" (=LDL-03) is data logger for KETT Coating Thickness Tester L-373 (=L-373).

The LDL-03 pastes a measurement data by L-373 on ©Microsoft Excel by the automatic operation, with the personal computer (=PC) that operates ©Microsoft Windows XP / Vista / 7.

- \* Please see each operating manual, about the PC operation, the operating system operation (="OS", Microsoft Windows XP / Vista / 7), and or the other software operation (©Microsoft Excel).
- \* In this operating manual, there are the operations and the illustrations of Windows XP. Please operate the OS according to an individual manual excluding the special note, on Windows Vista and 7.

### Packages

Check your LDL-03 Software Package for the following items.



#### \* USB-RS232C converter (Option)

This program has been checked the operation only with serial port (=RS-232C port) of the PC connecting directly or with the option USB-RS232C converter. If your PC does not have a connectable RS-232C port directly, please use this option converter. When other converters are used, we do not guarantee the operation.

### **System Requirements**

OS: Windows XP (32bit) / Vista (32bit) / 7 (32bit / 64bit)

PC : Manufacturer supported PC running the above OS (Microsoft recommended environment), with at least 1 spare RS-232C port or USB port (Ver.1.1 or later) and CD-ROM drives.

Essential Software : Excel 2003 / 2007 / 2010 (32bit / 64bit)

Microsoft Corporation recommended operating system requirements.

- \* If the volume of measurement result data to be handled is large,we recommend increasing your PC memory.
- \* The combination of the OS and the essential software will depend on the OS supporting that software.

### Notes

- 1. KETT ELECTRIC LABORATORY has the copyright of "LDL-03" and that hangs to this product and other rights.
- 2. It is impossible to reproduce by using part or all of this software and the manual without permission.
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- 5. The specification of this software and the content described in the manual might change without a previous notice in the future.
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### 1. Install



- \* If you use the optional USB-RS232C converter, please do not connect the USB-RS232C converter with PC until the driver's installation is completed.
- \* Please operate the installation software with log on manager's group account.

(Recommend; account of administrator's group)

\*If the dialog "User account control (Vista/7)" or "Install program as other user (XP)" is displayed while install operation, the installation cannot be completed even if the information is input. First of all, log off from PC, and try to reinstall after log on by the manager's account.

#### LDL-03 Install

- 1. Startup Windows.
- 2. Insert the LDL-03 CD-ROM.

\*It is necessary to end all other applications.

3. Double click [CD drive] in "My Computer", and double click "setup. exe".



4. Click [Next].



5. Click [Next].

When you install to different folder, you can change to different folder. The "Confirm Installation" dialog will be displayed.

🖗 KETT LDL-03		
Select Installation Folder		
The installer will install KETT LDL-03 in th	ne following folder.	
To install in this folder, click "Next". To in below or click "Browse".	stall to a different new or exis	ting folder, enter one
Eolder: C#Program Files#LDL-0	03¥	Browse
You can install the software on the follow	ing dri⊻es:	
Volume	Disk Size	Available
	74GB	56GB
<b>₽</b> Z:	62MB	62MB
		Disk Cost
[	Cancel Previo	

6. Click [Next].

侵 KETT LDL-03	
Confirm Installation	
The installer is ready to install KETT LDL-03 on your computer.	
Click "Next" to start the installation.	
	Previous Next

7. Click [Next].



 Click [Close]. The installation ended. Please confirm the short cut ( ) of LDL-03 on desktop.

Setup is now complete.

禮 KETT LDL-03		_	-×
Installation Complete	¢		
KETT LDL-03 has been sucessf	ully installed.		
Click "Close" to exit.			
	Cancel	Previous	

When you need to install the USB-RS232C converter driver, go on to P.9[**USB-RS232C** converter (Option) Install].

#### USB-RS232C converter (Option) Install

Install the "USB-RS232C converter driver" using the following method.



\* When the computer has RS-232C port of connecting directly, it is not necessary to install it.

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des 🙁

Files Currently on the C

1. Double click [CD drive] in "My Computer", and double click "U232-10.2.98.100806.exe".

2. Click [Next].

3. Click [Next].



<u>N</u>ext >

< <u>B</u>a

Cancel

- 00

- 4. Click [Finish].
  - \* Please restart your PC before using.



#### Connect Coating Thickness Tester L-373 to PC

Please connect PC with Coating thickness Tester L-373 by using the VZC53 cable as shown in figure below.



When the PC does not have any RS-232C port, the optional USB-RS232C converter is necessary for our specifications to VZC53 and the PC.

#### Connect USB-RS232C converter : first time

- When you connect the option USB-RS232C converter at first time, please operate the installation software with log on manager's group account. (Recommend; account of administrator's group)
- If you connect the option USB-RS232C converter to your PC before installing the driver, a dialog will be displayed requesting you to install the driver. Please, disconnect the USB-RS232C converter and install the driver first. (See P.9 [IUSB-RS232C converter (Option) Install])
- \* The following dialogs are displayed when the converter is connected, first time. And the installation work makes progress by the automatic operation.





The RS-232C port number is display according to OS that operates by your PC, please remember the displayed the serial port number.

\* Refer to look up at the RS-232C port number to P.19.

### 2. Operate LDL-03

Please confirm the L-373 setting to output the measurement data, beforehand.

Please, see L-373 operating manual.

#### Start LDL-03

- 1. Turn on your PC and startup Windows.
- - \* If "KETT LDL-03" does not display, search for the program from My Computer, or click on *distant* → [All Programs]→[Accessories] → [Explorer], and search for the program.



- 3. The LDL-03 icon ( ) is displayed on the task tray when the LDL-03 is started, and a new EXCEL worksheet starts.
  - \* If the cable is already connected, the connection will be started automatically when the application is started up.
  - \* RS-232C port (Com) will open automatically.



## Trouble

\* When the LDL-03 starts on PC without RS-232C port, Excel will start without new work-sheet.

\* If the LDL-03 started up on your PC with excel not installed, the following dialogs are displayed. Please, restart the LDL-03 after installing excel.

Microsoft Excel	joet fynnt Doli De yddw De Trje aandonio hol s n z u is stand 23 s % Se ⊡ - & A - P z
Ready	
	Couldn't start Excel and get Application object.

#### Set RS-232C port number

Click the LDL-03 icon ( **I**) in the task tray. Please, Select RS-232C port with L-373 connecting.

A new EXCEL work-sheet opens when the port that can be used is selected.

- In a right example, the port that can be selected is "USB (0)" and "COM (1)".
- \* Please operate this process when it starts first time or you change the communications cable connection.
- \* Please see P.19 when you do not know the number.
- \* The new EXCEL work-sheet opens whenever the port is changed.





#### Data transmission and storage

When "Data Output" of L-373 is set, measurements and the calculation data are put on the EXCEL worksheet.

- Please see the L-373 operating manual for details of Data Output Setting.
- \* If you need the setting data, for example [APPLI NO] or [LOT], please start LDL-03, before measuring.
- The EXCEL file is not saved by the automatic operation. Please save it yourself.
- \* LDL-03 cannot add data to an existing EXCEL file. A new EXCEL work-sheet is made by the automatic operation when receiving the data even if EXCEL is ended by mistake.

_	Aicrosoft E	xcel - Book	:1				
(理)	<u>E</u> ile <u>E</u> dit	⊻iew Ins	ert F <u>o</u> rmat	Tools [	<u>)</u> ata <u>W</u> indo	w <u>H</u> elp	Type a que
:	Arial		<ul> <li>10</li> </ul>	- B I	<u>u</u>   = 3	= = <b>•</b>	\$ %
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	A	В	С	D	E	F	G
1	Data Mem	ory Store					
2							
	*APPLI NO	0					
	*LOT 0						
	*DATE 200	18/09/30					
	*TIME_11:	35					
	*TYPE Fe						
	*U.LIM Off						
	*L.LIM Off						
10	N=	0	52.6	um			
11	N=	1	34.9				
12	N=	2	62.3				
13	N=	3	41.8				
14	N=	4	944				
15	N=	5	947				
16	N=	6	811				
17	N=	7	926				
18	N=	8	17.6				
19	N=	9	24.7				
20	N=	10	27.2				
21	N=	11	48.6	um			
22							
14 4	→ H \Sh	eet1 / She	et2 / Shee	t3/		<	IIII
Read	iy.						

#### End

Click the LDL-03 icon ( **1**) in the task tray, and select [Exit].



### 3. Uninstall (Remove)



- \* Please operate the uninstallation software with log on manager's group account. (Recommend; account of administrator's group)
- \* If "uninstall" cannot be selected, or the dialog "User account control (Vista/7)" or "Install program as other user (XP)" is displayed while uninstall operation, the uninstallation cannot be completed. First of all, log off from PC, and try to log on by the manager's account.

#### Uninstall LDL-03



\* We will recommend the backup of the measurement data etc. to be reserved before this operation.

1. Select [Control Panel] in start menu.



- 2. Double click [Add or Remove Programs]
  - \* If you operate Windows Vista/7, please select [Programs and Features].

Control Panel							ſ	
Ele Edt Yew Favorites Iook	194b							At .
0 · O · J P	Search D Fok	kers						
Address De Control Panel			_				~	20
Control Panel (8)	Accessibility Options	Addresolar	Remove	Advestative	Automatic Updates	Date and Time	Deplay	
See Also (8)	D Folder Options	Parts	Game	and and a	Intel(R)	Diternet Options	<b>i</b> Keyboard	
Help and Support	and the second s	Retwork Connections	Metwork Setup Waard	Phone and Modern	Power Options	Protes and Pages	Regional and Language	
	Scarrers and Caneras	Scheduled Table	Security Center	Sounds and Audo Devices	See.	System.	Tasibar and Start Meru	
	SE User Accounts	Windows Frewal	Wreless Link	Wreless Network Set				
32 objecta					)			- 9

- 3. Select [KETT LDL-03], and click [Remove]. or [Change/Remove].
  - \* If you operate Windows Vista/7, please select [KETT LDL-03], and click [Uninstall/Change]. If "User account control" is displayed, select [continue].

扇	Currently installed programs:	Show upgates	Sort by: Name	1	4
Change or Remove	Conexant AC-Link Audio				k
Programs	Intel(R) Extreme Graphics 2 Driver				
D.	F KETT LDL-DL		Size	0.22MB	
Add New	(광 KETT LOL-03			0.23MB	
Programs	Cick here for support information.			-	
4	To change this program or remove it from ye		Change	Remove	
AddRemove	Microsoft .NET Framework 1.1		Size		
Windows	Mcrosoft .NET Framework 2.0		Size	88.36MB	
Components	Microsoft Compression Client Pack 1.0 for W	Indoes XP			
e	Morosoft Silverlight		5424	1.3048	
Set Program	Mcrosoft User-Mode Driver Framework Peak	ure Pack 1.0			
Access and Defaults	PEALTEK Goabit and Fast Ethernet NEC Driv	er	Size	1.92MB	
	R Silcon Laboratories CP210x VCP Drivers for	Windows 2000/09/2003 Server/Vista	Size	3.66MB	
	SoftV90 Data Fax Modern with SmartOP		Size	0.54MB	
	Synaptics Pointing Device Driver		524	27.90MB	Į
	@U232 P9/P25 V7.2.98		500	0.16MB	
	Windows Internet Explorer 7		Size	2.64MD	

4. Click [Yes].



Uninstalling will start.



#### Uninstall USB-RS232C Converter cable driver

- 1. Please operate same operation from P.16(1) to (2).
- 2. Select [U232 P9/P25 10.2.98] and Click [Remove].
  - \* If you operate Windows Vista/7, please select [U232 P9/P25 10.2.98], and click [Uninstall]. If "User account control" is displayed, select [continue].
- Add at Remove Programs
   Add At Remove Program
   Add At Remove Programs
   Add At Remove Pro

3. Click [OK]. Uninstalling will started.



4. Click [Finish].

USB to Serial Converter Dr	iver Uninstall
	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on U232 P3/P25 10.2.98.
	< Bac Finish Cancel

### 4. Reference

### How to search serial port (RS-232C) number; (COM number)

1. Select [Control Panel] in start menu.

- 2. Double click [System].
  - \* Please make the control panel not the category view but a classic view on Windows XP and Windows Vista.

Windows Media Player	Control Panel						
	C Set Program Access and Defaults						
Windows Messenger	Printers and Faxes						
Tour Windows XP	🕐 Help and Support						
Wizard Files and Settings Transfer							
All Programs 🕨	All Programs						
	Log Off 🚺 Turn Off Computer						
🛃 start 📄 3 Windows	Explorer 🛛 👻 🐻 Add or Remove Pi						
Control Panel     Ele Edt Yew Favorites Loois Heb							
Q Inc. · Q · A Search Products	<u>با</u> کا م						
Freetrol Paret R & S	d or Administrative Automatic Dute and Time Deplay						
See Also	ane Jodening Ethel(R) Sternet Knyboard Inders Options Litenes Options						
ey Heb and Support	2 6 4 6 9						
	At Setue Roose and Power Options Proteins and Respond and Indexed Roose						
Scanners and Scheduled Se Cameras Tasks G	nety Sounds and Speed Taybar and Inter Audio Devices Sert Menu						
SB Control Week	ess Link Writess Network Int						
	Haddorf (Golden) (						
See information about your computer system, and change settings for hardware,	performance, and automatic upda						
System Properties	?×						
System Restore Autor	natic Updates Remote						
General Computer Name	Hardware Advanced						
Device Manager							
	all the hardware devices installed Device Manager to change the						
properties or any device.	Device Manager						
Drivers Driver Signing lets you mak	e sure that installed drivers are						
how Windows connects to	Windows Update lets you set up Windows Update for drivers.						
Driver Signing	<u>₩</u> indows Update						
Hardware Profiles							
Hardware profiles provide a different hardware configur	a way for you to set up and store ations.						
	Hardware Profiles						
	IK Cancel Apply						

3. Click [Device Manager].

 In a right example, the direct connect RS-232C port is one, because it is displayed [Communication Port (COM1)].

And, the RS-232C port of USB-RS-232C converter is four, because it is displayed [Serial On USB Port (COM4)].

🗒 Device Manager	
Ele Action View Help	
←→ 8 2 2 8 3 × 2 2	
🗄 📲 Computer	~
🗄 🝩 Disk drives	
🕀 😼 Display adapters	
🗄 🖓 DVD/CD-ROM drives	
🗄 🚭 Floppy disk controllers	
🗄 🚜 Floppy disk drives	
IDE ATA/ATAPI controlers	
IEEE 1394 Bus host controllers	
🕀 👰 Infrared devices	
🗄 😓 Keyboards	-
It is and other pointing devices	
🕀 🦢 Modems	
😐 👹 Monitors	
Image:	
E – PCMCIA adapters	
E-J Ports (COM & LPT)	
Communications Port (CCM1)	,
ECP Printer Port (LPT1)	
Serial On USB Port (COM4)	
Processors	
GCSI and RAID controllers	×

#### Version information of LDL-03

Click the LDL-03 icon ( 🔄 ) in the task tray, and select [Information].



### Troubleshooting

Trouble	Check Point
Data is not putted on EXCEL.	<ol> <li>Please confirm whether the selected RS-232C port is corresponding to the connected port. (See P.19)</li> <li>Please confirm whether PC is connected with L-373 by the connecting cable.</li> </ol>
Software Installation         Image: Software you are installing has not passed Windows Logo testing to verify its compatibility with Windows 37°. Let me with the testing to verify its compatibility with Windows 37°. Let me with the testing its montant.         Continuing your installation of this software may impair or destablic the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you sup this installation now and contact the software vendor for software that has passed Windows Logo testing.         Continue Anyway       STOP Installation         It is displayed while installing it, "It doesn't pass Windows logo testing."	USB-RS232C converter (option) has been confirmed the operation. Please advance the installation clicking the continuation button at ease.

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