

**User's Manual [(ver2_0)]
Of
Label Data Storage for Printing**

(LDSP_LED)

By

Futura Apsol Pvt. Ltd.

1212/B/2, Apte Road, Shivajinagar,

Pune 411 004. Telefax: 020- 2553 1832.

www.futuras.com sales@futuras.com

Software Version: LDSP_LED_8722_1 (30/07/09)

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Label Data Storage For Printing Unit.

Packing List

1. **Label Data Storage For Printing (LDSP_LED) - 1 No.**
2. This User's Manual - 1 No.
3. Standard Modem Serial Cable - 1 no.
4. Trigger cable for printing purpose - 1no.
5. A CD containing TERMINAL software for serial communication with LDSP_LED - 1no.
6. Serial Number of LDSP_LED.....

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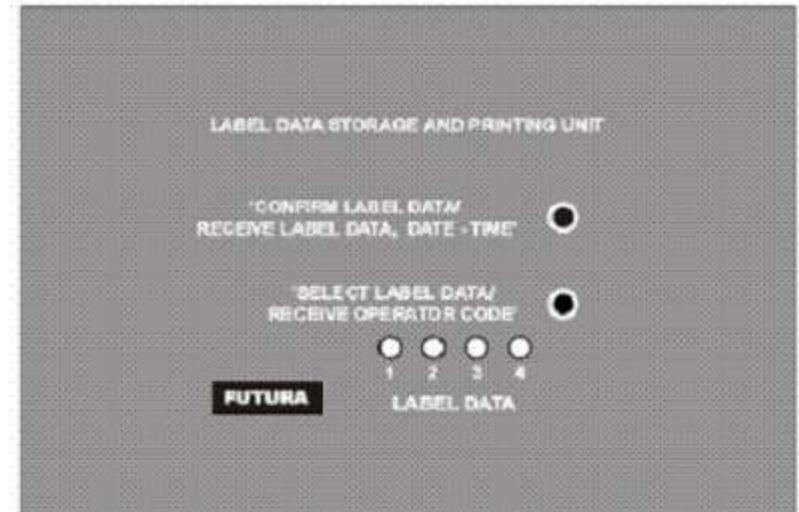
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Appendix1

Appendix2

Label Data Storage For Printing Unit

1 Front View of LDSP_LCD:

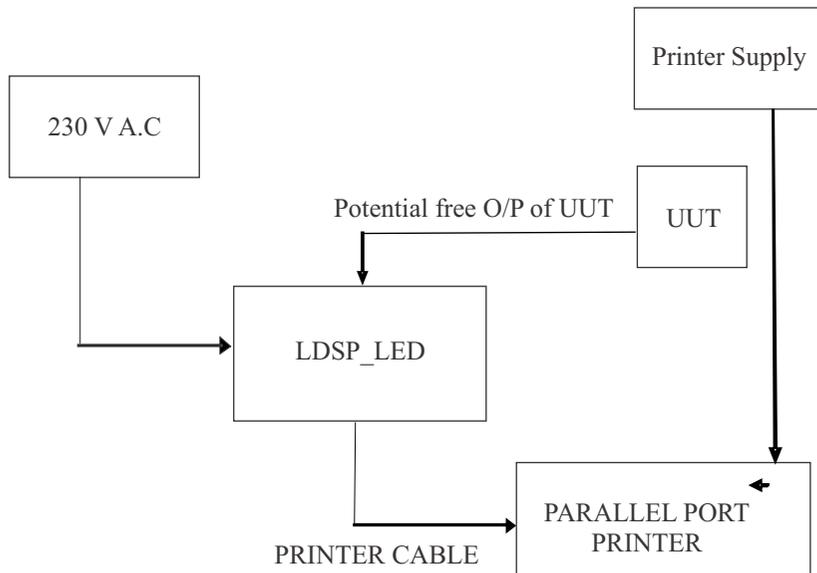


2 Introduction:-

2.1 Function:

LDSP is specially meant for storage and printing of different label data after testing of UUT. The special feature of this product includes, along with different data user can select date, time, month, year, week, in different combinations.

2.2 Description of System:



ONLINE SET UP OF SYSTEM.

2.3 Technical Specifications:

1. **Power Supply**--- 0~230 AC, 50Hz± 10%
2. **Communication Protocol** - RS-232, 2400 baud, 8 bit data, 2 Stop bits. (for serial communication)
3. **User Interface :**
 - a) **4 key keyboard**
Confirm label data, Receive label data, date & time (**Confirm Key**)
Select label data, Receive operator code (**Select Key**)
 - b) **4 LED'S**
4. **Mechanical Dimension**--- 200 * 120 * 90 mm, ABS body

2.4 General Features:

- 1) LDSP_LCD is specially made for storage of label data for printing purpose.
- 2) PC interface will be through RS232 serial port.
- 3) Maximum 4 different label data of 3.5 KB each can be stored.
- 4) User interface is with four keys and 4 LED'S.
- 5) Printer interface is through 25 pin D type connector.
- 6) Can be interfaced to any other centronics printer having parallel port.
- 7) Variable data such as date, time, week, serial no, shift times, incremented serial no, can be generated through LDSP_LED for printing.

3 Installation:-

Installation procedure of LDSP_LED.

A) Create label file, download in LDSP, and print.

- 1) Design label on PC using label design software provided with label printer. Print this label by connecting PC to printer.
- 2) Open this prn file to note pad and add # at the start and at the end of label file.
Reference:-Demo label file (example) given with in the CD.
- 3) Connect printer to LDSP_LED through printer cable. Power on printer and let him take ready to print status.
- 4) Connect LDSP to PC's serial port through standard modem cable (9 pin m -9pin f) and download label file in to LDSP_LED. Refer operation section for downloading.
- 5) After successful downloading of label data demo label print will come.
- 6) For different variables such as date time serial no etc. required by user, modify label file as Reference: - Appendix 1.

B) Down load date and time.

- 1) Connect LDSP_LED to PC serial port through standard modem cable (9 pin m -9pin f) and download DATE file in to LDSP_LED.
- 2) Refer operation section for downloading data and time in to LDSP_LED. Also refer date and time example given with CD.

4 Operation:-

4.1 LED status and Meanings:

A) Operation specific:

- **Any single LED glows steadily:** - Shows current label location selected.
- **Any single LED blinks once:** - External trigger has been accepted or label location has been confirmed by user.
- **First two LED glowing:** --- User is in label data reception mode.
- **Last two LEDS glowing:** ---User is in date and time reception mode.
- **LED 1 & LED 2 both blinking means:** - It shows that the unit is receiving label data.
- **Any single LED blinking continuously:** - It shows that the unit is saving label data at blinking location.
- **Any single LED blinking continuously on key press:** - It shows that the user is in progress for selection of label data mode.
- **All four blinks in row once:** LDSP_LED is sending data to printer. .

B) Error Specific indications:

- **All 4 LEDS blinks for 2 times:** - Error condition in any operation.
- **All 4 LEDS glows continuously:** - Either printer is not connected or printer is not ready for printing (printer is busy).

4.2 Menus and Submenus (Menu name and keys accepted)

Select label location: Selection key after power on.

Label data reception mode: Press confirm key until first two LED'S glow.

Date and time reception mode: Press confirm key until last two LED'S glow.

4.3 Interfacing with PC:-Connect standard modem cable (9 pin m -9pin f) to PC's serial port at one end and LDSP_LED's serial port at another end.

4.4 Interfacing with Printer:-Connect printer cable to printer at one end (centronics) and LDSP_LED (25 pin) at printer port provided.

4.5 Interfacing with external unit: - Connect trigger cable(9 pin m) to ldsp at one end and external device at other end.

4.6 Downloading Label data:

- Power on LDSP_LED, select label and confirm label location at which you want to save the label file. Otherwise label file will be saved on previously confirmed label location
- Enter in label data reception mode through pressing confirm key until first two LED'S glow.
- Now Send label file through PC with the help of terminal software with appropriate setting (refer section6).
- During reception first two LED'S will blink, after that single LED of confirmed location will blink indicating saving is in progress.
- After saving, data will be sent to printer with indication and if printer is ready then demo label print will come.
- For label file refer to example file given with the CD.

4.7 Downloading Data and Time:

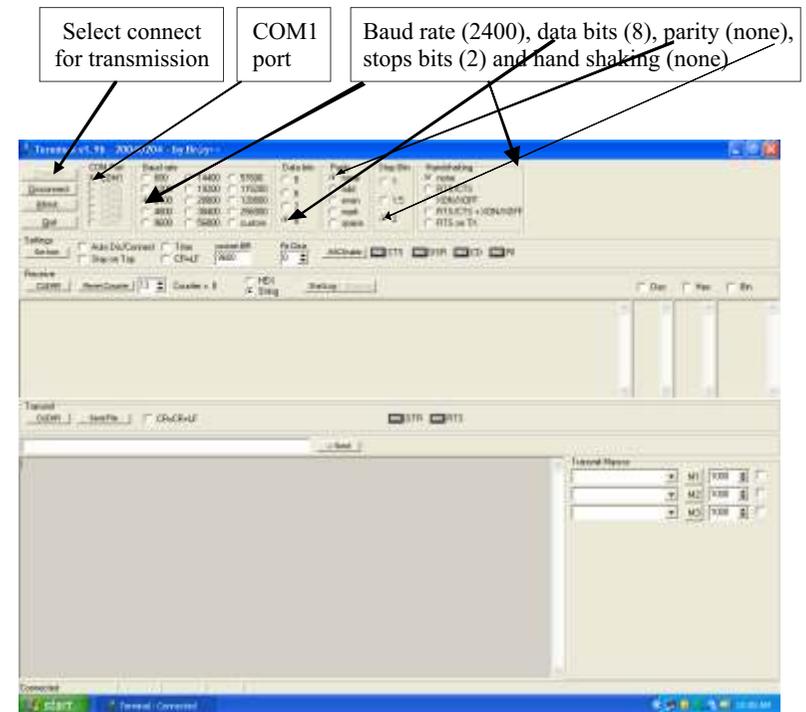
- Enter in date and time reception mode through pressing confirm key until last two LED'S glow.
- Send date and time file through terminal software with appropriate settings (refer section6).
- New date and time will be assigned to LDSP_LED after saving.
- For date and time file refer to example file given with the CD.

5 Details of 'Terminal' software screen are as follows:- use for sending data through PC.

Set baud rate (2400), data bits (8), parity (none), stop bits (2) and hand shaking (none) as shown below.

Select proper COM port.

Click on connect.



Appendix 1

Selection of Printing Format: User can modify default label file as follows

#--- (add # at the start)

Label Data @1@2@3@4@5@6---@6@7@8@9@A@B@C@D

#---- (add # at the end)

@ 1- Date (dd/mm/yy)

@2- Time (hh:mm:ss)

@ 3- Week.

@4- Only month. (mm)

@ 5- Only year (yy)

@6- Serial number@6. (For initialization of serial no write zero to eight digits

Serial no,here.Serial no. more than eight digits not allowed.)

@7- Repeated serial no.

@8- Only day. (dd)

@A- Not Applicable.

@B- Not Applicable.

@C - Not Applicable.

@D - Shift

From 07.30 am to 03.30 pm Shift 'A'.

From 03.30 pm to 12.30 am Shift 'B'.

From 12.30 am to 07.30 am Shift 'C'.

@E-Incremented serial no.

Appendix 2

Data and time format

#ddmmyyhhmmss# (no blank space allowed)

E.g. # 231007164530#

Date: 23-10-2007

Time: 04pm: 45Min: 30Seconds.

Some of Our Products :

Cable Harness Tester : PHTM320, PHTM640, PHTM960.

Cable Harness Tester : HTMT32, HTMT64.

One to One Continuity Tester : CT121-16, CT121-32, CT121-48, CT121-96.

Harness Assembly Aid : HAA64, HAAP64, HAAP96.

Label Data Storage for Printing : LDSP, LDSP-LCD.

Solid State Floppy : SSF.

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