User Manual

ESC/POS PRINTER DPP-450



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1. Introduction

DATECS DPP-450 is a mobile ESC/POS and LABEL thermal printer. It can be used in dynamic working conditions and its abundant built-in features allow it to be widely used for different applications. Printer can quickly and easily print text and/or graphics, depending on customer's needs – barcodes, logo, etc.

2. Features

The DPP-450 is a mobile line thermal printer, applicable for different applications as shown below:

- Mobile
- Label Peeler
- traveling sales
- Retail
- Transportation
- Receipts
- Point of sales
- Distribution
- Accessories: Wearable built-in metal belt hook

3. Technical specification

DP	P-450 Specification
Printing Method	Line Thermal Dot Printing
Total Dots	832 dots / line
Dot Density	8 dots / mm (203 dpi)
Print Speed	150 mm / sec
Print Width	104 mm
	Font A: 48 characters / line
Characters non Line	Font B: 64 characters / line
Characters per Line	Font C: 48 characters / line (loadable)
	Font D: 64 characters / line (loadable)
	- Thermal Paper Roll: 115 mm / Ø 45 mm,
Recommended Paper	thickness 60 μm
-	- Label Paper Roll: 115 mm / Ø 45 mm
	- RS-232C with optional special cable (1200 –
	115200 bps)
Interfaces	- USB 1.1 device
	- Bluetooth(option)
	- Wi-Fi (option)
Paper Feed system	Step
Logo Registration	1 Black & White 832 x 248 dots
Emulation	ESC/POS / LABEL (Continuous paper
	Mode, Black Mark Mode)
	- 1D: EAN13, EAN8, UPC-A, UPC-E, Codabar,
Resident Barcodes	Code 39, Code 128
	- 2D: PDF417, QR Code
Power Supply	Rechargeable battery (Li-Ion - Model)
	14.8V; 2200 mAh, Adapter: AC 100-240V,
	DC 24V 5A
Battery Charge Time	2 hours maximum
Input Buffer	128 KB (131072 bytes)
Reliability	50,000,000 pulses or 50 km mechanism
	(MCBF): 15,000,000 lines
Weight, kg	0.785 grams (w/o paper)
Dimension (Lx W x H),	136x 123 x 51
mm	
	- Operating: 0oC to +40oC; 35% RH to 85%
Environment	RH
Environment	- Storage: -20oC to +60oC; 10% RH to 90%
	RH
	- Mobile
	- Label Peeler
	- Traveling sales
More features /	- Retail
Applications	- Transportation
	- Receipts
	- Point of sales
	- Distribution
Accessories	Wearable built-in metal belt hook

4. General view

4.1 Dimensions and outlook



4.2 Box Contents



Software (Drivers & SDK):

Because of the continually evolving Driver & SDK to support new mobile devices, Drivers & SDK are distributed online and is available for download at our website indicated below. For details on using the DPP-450 Drivers & SDK, please refer to the SDK's documentation.

http://www.datecs.bg/en/products/DPP-450/2/264#

5. Getting started

The DPP-450 allows you to printer information from your PDA & Smart phone. Before using the DPP-450 thermal printer the battery should be properly charged. The following Quick Start guide will help to get your DPP-250 ready for use.

Steps	What to do	Purpose	Where to find more information
1	Charge the DPP-450 rechargeable battery pack as recommended in this manual	The Lithium Ion battery pack should be fully charged before use to ensure long battery life.	Charging Battery, Page 9
2.1	Load DPP-450 print media(Thermal paper roll)	DPP-450 requires Thermal paper for printing.	Loading Paper, Page 10
2.2	Load DPP-450 print media(Thermal label paper)	DPP-450 requires Thermal label paper.	Loading Paper, Page 10
3	Setup Bluetooth Paring	Setup Bluetooth pairing to allow DDP-450 to communicate with Bluetooth devices.	Bluetooth Setup, Page 24
4	Install DPP-450 Software	To print information from your device, software needs to be installed onto your device.	Install DPP-450 Software, Page 8

5.1 Charge DPP-450

The DPP-450 uses a Lithium-Ion rechargeable battery pack.

To prevent electrical damage to the DPP-450 and/or battery pack, please use approved AC Charger only.

Charging time is 3 hours from empty to full charge. When the battery is fully charged the device can print 150m paper roll, this is 3.5 rolls standart for DPP-450.



Insert cable to dc jack to start charging.

When the device is turn on(holding turn on/off button), in display will show "CHG" text and greed led "CHARGE" is blink.

ECS/POS Ready CHG

5.2 Diagnostic information

 \bullet Holding <LF> button while power on for ~ 0.5 sec (first sound signal) – short self-test.

• Holding <LF> button while power on for ~ 2.5 sec (second sound signal) – start dump mode. All input data are printed hexadecimal and as text.

• Holding <LF> button while power on for more than 8.5 sec (fifth 4-tone sound signal) – enter firmware

updating mode.

• Holding <ON/OFF> button while power on for ~ 4 sec (first sound signal):

- If serial cable is connected (RS232 communication) – temporary forcing 9600 bps serial

speed.

- If no serial cable connected (Bluetooth or USB communication) - starting a hardware menu

for fast Bluetooth pairing info reset.

• Holding <ON/OFF> button while power on for more than 6 sec – enter hardware setup mode.

• Holding <ON/OFF> button while power off for more than ~ 1sec.

• Holding <ON/OFF> button while less than ~ 1sec, backlight is turn on for short time.

• Holding <ON/OFF> button and press <LF> button – printing WIFI info.

5.3 Loading paper

Peeler(slide back)

hubble to open paper cover

First slide peeler to position show on the picture. After this push to open paper cover.



Lever for paper size

When the paper cover is open drop the new roll of thermal media. With green lever can choose size of thermal paper.

To choose paper size – pull up lever and push on right for small paper or left for big. When lever is in max. left position insert new paper(if size is different from last one) and pull up lever and push right until reach paper, then release lever.



Insert new paper



Right paper position



Close paper cover



5.4 Mounting belt clip



Using two screws.

5.5 Self-Test

 \bullet Holding <LF> button while power on for ~ 0.5 sec (first sound signal) – short self-test.

DATECS Port	able Printer	
MODEL DPP-450	Version 2.19	
Interfaces:	WFI/RS/USB/BT/I	
RS Baud rate:	115200 bps	
Flow control:	Hardware	
BT Name:	DPP-450	
BT Address:	000190ED13BF	
WiFi Firmware Version:	1.0	
WiFi MAC:	001EC003F681	
WiFi Region Domain:	0	
WiFi DHCP:	Enabled	
WiFi Port:	9100	
WiFi SSID:	Flex	
WiFi Power Management:	Disabled	
IrDA baud rate:	19200 bps	
USB mode:	Device	
USB device class:	Printer	
Country:	USA	
Code page:	Western (1252)	
Black mark mode:	Disabled	
Protocol mode:	Disabled	
Intensity:	120 %	
Auto off:	10 min	
Temperature:	25°C	
Date & time:	SEP/15/08 23:51	
Battery:	15.7V []] 78%	
Switches:	123456789012345	

The DPP-450 has a built-in test pattern that shows the printer's current configuration as well as the various resident printer fonts. The self-test can also be used as a troubleshooting tool to determine printing problems or battery level. The steps below show how the self-test is printed activated. • Holding <LF> button while power on for ~ 5.5 sec (third sound signal) – self-test.



- Resident font sizes
- > Characters per line
- Text formatting
- Resident character set
- Resident barcode symbols
- Printer's configuration

5.6 Page Mode

In page mode the result of incoming commands is forwarded to a reserved memory area (page). The page place and size is defined using command ESC W. Command GS T selects the print direction in this page. At the end the collected information is printed using one of the commands, provided for this. Commands ESC FF and GS FF print only the currently defined page, but command ESC Z prints the area between the first and last line containing at least one black point.

All commands except GS L and GS W work in page mode. The centering and right alignment

(command ESC a) is working in the currently defined page width.

5.7 Ruled lines

The printer has two line buffers with size the maximum printing width (paper width in standard mode or the selected page width in page mode). When ruled lines are active, then every horizontal line of the text line is combined with the selected ruled line buffer. Bit '1' in the ruled line buffer is a black dot in OR mode and inverts the color of the dot in XOR mode. Two commands allow the ruled line buffers to be printed without combining with a text line.

When pressing the FEED button, no ruled lines buffer is applied. All ruled lines commands start with symbol DC3 (ASCII code 13h). Please see command DC2 = , too .

Warning!

The ruled lines print position depends not on GS L and GS W (left margin and line width) and is always at the beginning of the line (or at the beginning of the printable area in page mode). The printed text and graphic change their position according these commands.

When printing 180 degrees rotated lines (command ESC { 1) ruled lines buffers are not rotated!

5.8 Protocol mode

Protocol mode is active when hardware switch 11 is on. The purpose of this mode is to give stronger real time access to the printer. All input data are sent in packets as described below. The printer returns an answer to the packet immediately.

Output packet format:Channel Command LenHi LenLo DataAnswer format:Channel Status LenHi LenLo Data

Channel:One byte:Bits 0 - 6Channel number (Device type)Bit 70: Send data; 1: ResponseCommand: One byte with possible value:

- **0**: Open channel (No action all channels always open)
- 1: Close channel (No action all channels always open)
- 2: Send data
- **3:** Request data
- >4: Application specific

Status: One byte:

	0	1
Bit 0	No error	Error occured
Bit 1	ACK (Packet accepted)	NACK (Packed not accepted)
Bit 2	Channel and command OK	Wrong channel or command
Bit 3	Battery OK	Low battery
Bit 4	Printing head OK	Printing head too hot
Bit 5	Paper OK	Out of paper
Bit 6	Not de	fined
Bit 7	Printer ready	Printer busy

Bit 7 is set, if:

- There are unprinted lines in the print buffer.
- There are bytes in the print buffer.
- The printer is executing a macro.
- The printer is executing selftest.
- The button <LF> is pressed feeding paper.

LenHi:	High byte of data length of data. 00h to 08h.
LenLo:	Low byte of data length of data. 00h to FFh.
Data:	256*LenHi +LenLo data bytes.

The maximum packet length is 2048 bytes.

The answer differs from the command by bit 7 (MSB) in the channel number. If bit 7 is 0 then it is a command, if it is 1 then it is a response. Bit 0 in the status byte shows if there was an error accepting or processing the data block. If this bit is 1 the other bits show the type of the error.

The printer never issues a transmission by itself. It always responds as an answer to a command. The communication goes like this:

Host – command, Printer – answer; Host – command, Printer – answer; etc.

The defined channels are:

1 Printer.

16 (10h) Optional card reader.

Commands for the printer channel (1):

Command 2 Send data

The data is copied into the printer's print buffer. If there's not enough space into the print buffer the packet is rejected, and a status byte with value 3 is returned in the answer.

Command 3 Receive data

If there is data to be transmitted from the printer to the host, it is transmitted in the data field of the packet, otherwise an empty packet is received. The application must take care to get the data fast enough from the output buffer or the data may be corrupt.

Command 4 Get printer status. 5 data bytes returned in response:

BufferHi BufferLo PrStatus Volt Temperature

BufferHi High byte of the count of free bytes in input buffer.

BufferLo Low byte of the count of free bytes in input buffer.

PrStatus Printer status. The following bits defined:

- Bit 0 Battery low
 - Bit 1 Too hot
 - Bit 2 No paper

Volt The battery voltage in units 0.1V

Temperature The head temperature in degrees Celsius.

If free bytes in input buffer are more than 65535 (FFFFh), then FFFFh is returned.

Using channel 16 is the only way for full control over the optional card reader.

Communication example (all bytes hexadecimal):

```
Send data:
  >>> 01 02 00 05 11 22 33 44 55
  <<< 81 00 00 00
Send data with error:
  >>> 01 02 00 05 11 22 33 44 55
  <<< 81 01 00 00
  >>> 01 02 00 05 11 22 33 44 55
  <<< 81 01 00 00
  >>> 01 02 00 05 11 22 33 44 55
  <<< 81 00 00 00
Receive data:
  >>> 01 03 00 00
  <<< 81 00 00 00
  >>> 01 03 00 00
  <<< 81 00 00 04 11 22 33 44
  >>> 01 03 00 00
  <<< 81 00 00 00
Get status:
  >>> 01 04 00 00
  <<< 81 00 00 05 3F F8 01 49 27
```

5.9 Hardware setup

Holding <ON/OFF>button while power on for more than 6sec. – enter hardware setup mode. "STATUS"(red led) will blink once, after this device is printing message:



Then press FEED button, to enter Hardware menu. Device will prining current settings.

READ QUESTIONS CAREFULLY!	
CURRENT SETTINGS	
MEM. SWITEHES: 10000001100001	
ENABLE SOUND: YES	
DISABLE <lf> COMMAND: NO</lf>	
DISABLE <lf> AFTER <cr>: NO</cr></lf>	
DEFAULT SMALL FONT: NO	
BLACK MARK MODE: NO	
XON/XOFF: NO	
ENABLE USB INTERFACE: YES	
PROTOCOL MODE: NO	
DISABLE BLUETOOTH: NO	
DISABLE DISCOVERABILITY: NO	
LCD FOREIGN LANGUAGE: YES	
BAUD RATE: 115200 bps	
IrDA BAUD RATE: 19200 bps	
AUTO OFF TIME: 10 min	
PRINT DARKNESS: 120 %	
CHARACT. TABLE: Western (1252)	
USB DEV. CLASS: Printer	
<pre><print> select item</print></pre>	
<feed> choose item</feed>	
Press () short to cancel	
Hold 😃 long to turn off	

The LCD in hardware configuration menu:



With button "PRINT" can move down and with "FEED" can enter in selected.

Hardware menu tree:

FACTORY DEFAULT YES NO

MEM. SWITCHES

ENABLE SOUND EXECUTE <CR> AS <LF> DISABLE <LF> COMMAND DISABLE<LF>AFTER **DEFAULT SMALL FONT USE GAP SENSOR BLACK MARK MODE** XON/XOFF **ENABLE USB INTERFACE USB IN DEVICE MODE** PROTOCOL MODE **DISABLE BLUETOOTH** DEFAULT SELECT DISP DISABLEDISCOVERABILITY LCD FOREIGN LANGUAGE DISCARD ACCEPT

Enable/Disable printer's buzzer Disable CR/CR is executed as LF Enable/Disable LF Disable LF immediately after CR Set the small font as default Enable/Disable the GAP sensor Enable/Disable the black mark sensor Enable/Disable XON/XOFF protocol Enable/Disable USB communication port Changing the USB HOST/DEVICE mode Enable/Disable Protocol mode Enable/Disable Bluethooth communication Set the main display as default Enable/Disable printer's discoverability

Exit without saving configuration Exit with saving configuration

BAUDRATE

Changing the printer communication speed (RS)

- 115200 bps
- 38400 bps
- 31200 bps
- 2400 bps
- 4800 bps
- 9600 bps
- 19200 bps
- 57600 bps

Changing the IrDA communication speed

Changing the printer's auto OFF time

• 19200 bps

IrDA BAUD RATE

- 9600 bps
- 38400 bps
- 57600 bps
- 115200 bps

AUTO OFF TIME

•

10 min.

- 15 min.
- 20 min.
- 30 min.
- 45 min.
- 60 min.
- 0 min

- 2 min.
- 5 min.

PRINT DARKNESS Changing the printing darkness

- 120 %
- 140 %
- 160 %
- 60 %
- 75 %
- 90 %
- 100 %

CHARACTER TABLE Changing the printer's character table

- Western (1252)
- CE (1250)
- Turkish (1254)
- Baltic (1257)
- Cyrillic (1251)
- Greek (1253)
- Hebrew (1255)
- Katakana
- Arabic
- Arabic (1256)
- Arabic (1256A)
- Arabic (1256F)
- Thai (874)
- VISCII
- English (437)
- Latin 1 (850)
- Portuguese (860)
- Lithuanian
- Latin 2 (852)
- Polish
- Turkish (857)
- Baltic (775)
- Bulgarian (856)
- Russian (866)
- Latvian
- Greek (737)
- Hebrew (862)

PAIRING INFO

G INFO Resetting pairing info // Enable/Disable saving pairing info

- Disable authentication
- Change pairing info
- Save pairing info

USB DEV. CLASS Changing the USB device class of the printer Printer/Serial

- Printer
- Serial

SAVE & EXIT MENU

5.10 List of commands

1	BEL	Sounds the buzzer
2	HT	Horizontal Tab command configuration flags 2, 3 and 4
3	LF	Printing a line and Paper Feeding command
4	FF	Printing and paper feeding to the black mark position
5	CR	The operation of the command depends on the state of the
6	DC2 =	Image LSB/MSB select
7	DC3	(DC3 (Ruled line) commands sequence start
8	DC3 +	Sets the ruled line ON
9	DC3 -	Sets the ruled line off
10	DC3 A	Selects ruled line A
11	DC3 B	Selects ruled line B
12	DC3 C	Clears selected ruled line buffer
13	DC3 D	Sets a single dot in selected ruled line buffer
14	DC3 F	Ruled line pattern set
15	DC3 L	Ruled line line set
16	DC3 M	Selects ruled line combine mode
17	DC3 P	Ruled line 1 dot line print
18	DC3 p	Ruled line n dots line print
19	DC3 v	Ruled line image write
20	CAN	Canceling print data in page mode
21	ESC FF	Printing data in page mode
22	ESC RS	Sounds the buzzer
23	ESC SP	Setting character spacing
24	ESC #	Setting EURO symbol position
25	ESC \$	Specifying the absolute horizontal position of printing
26	ESC %	Selecting/Canceling the printing of downloaded user character
		sets
27	ESC &	Selecting user character set
28	ESC !	Specifying printing mode of text data
29	ESC *	Printing graphical data
30	ESC +	Switchs OFF the printer
31	ESC -	Selecting/Canceling underlining
32	ESC.	Printing self test/diagnostic information
33	ESC 2	Specifying 1/6-inch line feed rate
34	ESC 3	Specifying line feed rate n/203 inches
35	ESC <	Changes print direction to opposite
36	ESC =	Data input control
37	ESC >	Selecting print direction
39	ESC @	Initializing the printer
40	ESC CAL	Black mark mode sensor calibration

41	ESC D	Setting horizontal tab position
42	ESC E	Specifying/Canceling highlighting
43	ESC F	Filling or inverting the page area in page mode
44	ESC G	Specifying/Canceling highlighting
45	ESC I	Specifying/Canceling Italic print
46	ESC J	Printing and Paper feed n/203 inches
47	ESC L	Selecting page mode
48	ESC N	Reading programmed serial number
49	ESC R	Selecting country
50	ESC S	Specifying speed (bps) of the serial port
51	ESC T	Printing short self test
52	ESC U	Selecting/Canceling underlined printing
53	ESC V	Selecting/Canceling printing 90°- right turned characters
54	ESC W	Defining the print area in page mode
55	ESC X	Specifying max printing speed
56	ESC Y	Selecting intensity level
57	ESC Z	Returning diagnostic information
58	ESC \	Specifying relative horizontal position
59	ESC]	Loading the default settings stored in Flash memory
60	ESC ^	Saving current settings in Flash memory
61	ESC _	Loading factory settings
62	ESC `	Reading the Battery Voltage and Thermal head temperature
63	ESC a	Aligning the characters
64	ESC b	Increasing text line height
65	ESC c5	Enabling/Disabling the functioning of the button LF
66	ESC d	Printing and feeding paper by n- lines
67	ESC i	Feeding paper backwards
68	ESC o	Temporarily feeding paper forward
69	ESC pair=	Enabling/Disabling PAIRING info saving in Bluetooth mode
70	ESC pwd=	Programming a new Bluetooth password (PIN)
71	ESC r	Full command for sounding buzzer
72	ESC s	Reading printer settings
73	ESC u	Selecting code table
74	ESC v	Transmitting the printer status
75	ESC x	Setting the time interval for automatically switching Off the
		printer
76	ESC y	Setting USB response strings
77	ESC {	Enabling/Canceling printing of 180° turned characters
78	GS FF	Printing in page mode and returning to standard mode
79	GS \$	Specifying the absolute vertical position in page mode
80	GS)	Setting printer flags (memory switches)
81	GS *	Defining a Downloaded Bit Image (logo)
82	GS /	Printing a Downloaded Bit Image
83	GS:	Starting/ending macro definitions
84	GS B	Enabling/Disabling inverse printing (white on black)
85	GSC	Read the Real Time Clock
86	GS H	Selecting printing position of HRI Code
87	GSL	Setting the left margin
88	GSQ	Printing 2-D barcodes

89	GS R	Filling or inverting a rectangle in page mode
90	GS S	Selecting 2-D barcode cell size
91	GS T	Selecting the print direction in page mode
92	GS U	Selecting standard mode
93	GS W	Setting the print area width
94	GS X	Drawing a rectangular box with selected thickness in page
		mode
95	GS Z	Printing the non blank page area only in page mode
96	GS \	Specifying the relative vertical position in page mode
97	GS ^	Executing macro
98	GS c	Setting the Real Time Clock
99	GS f	Setting the font of HRI characters of the barcode
100	GS h	Setting the height of the barcode
101	GS k	Printing a barcode
102	GS p	Settings for 2D barcode PDF417
103	GS q	Selecting the height of the module of 2D barcode PDF417
104	GS w	Selecting the horizontal size (Scale factor) of the barcode
105	GS x	Direct text print in page mode
106	FS !	Specifying printing mode of two-byte text data
107	FS &	Selecting two-byte text mode (JIS or GB2312)
108	FS -	Selecting/Canceling underline mode for two-byte text mode
109	FS.	Canceling two-byte text mode
110	FS C	Selecting Shift-JIS mode (Japanese version only)
111	FS S	Specifying character spacing for two-byte text mode
112	FS W	Selecting double size characters for two-byte text mode
113	ESC y WAN	WAN

5.11 Connecting Device

The DPP-450 is designed to use different methods of communications. Care must be taken to ensure that the DPP-450 USB/RS 232 connector and PDA & Smartphone connector are not accidentally damaged. The figures below show how to attach the different device to the DPP-450.

USB (Cabled) Version:

Connect the DPP-450 using Mini USB cable is shown in the figure below.



Bluetooth version:

The DPP-450 Bluetooth version uses Bluetooth® wireless technology to connect to Bluetooth enable devices.

iOS devices:

Connect to LineaTAB.

Start – LibraryDemo on iPad. Connect LineaTab to iPad(Figure 4). After this press settings button.



Turn on DPP-450 Bluetooth printer. From setting menu press Discover printers, and wait to find printers. When is found press on selected printer and wait connect.

16:33 71 % III	
General Settings	General Settings
Beep upon scan	Beep upon scan 🗸
Enable scan button 🗸	Enable scan button 🗸
Automated charge enabled	Automated charge enabled
Barcode Scan Mode	Barcode Scan Mode
Single scan 🗸	Single scan 🗸
Multi scan	Multi scan
Motion detect	Motion detect
Single scan on button release	Single scan on button release
Multi scan without duplicates	Multi scan without duplicates
Bluetooth Printers	Bluetooth Printers
Discover printers	Discover printers
Firmware Update	DPP-450
Update Linea firmware	Firmware Update
Update Encrypted Head firmware	Update Linea firmware
Update opticon firmware	Update Encrypted Head firmware
Update code firmware	Update opticon firmware
	Update code firmware
CS/POS Ready	Internet Sector Constraints
BTH	

On DPP-450 LCD screen is show message "BTH", when is connected. Press on LineaTAB "Print " button:

16549
General Settings
Beep upon scan
Enable scan button
Automated charge enabled
Barcode Scan Mode
Single scan
Multi scan
Motion detect
Single scan on button release
Multi scan without duplicates
Bluetooth Printers
Discover printers
DPP-250 (000190EC40A4)
Firmware Update
Update Linea firmware
Update Encrypted Head firmware
Update opticon firmware
Update code firmware

On "Print" menu can printing via Bluetooth connection:

Print self test
Demo fonts
Demo barcodes
Demo graphic
Load logo

- Print Self-test

- Demo fonts

- Demo barcodes
- Demo graphics

To terminate the BT connection, press settings menu and name of printer. When is close connection the "tick" will disappearing.

5.12 Mount Strap



Strap

