

User's Manual

Models CD5220 / CD6220

Vacuum Fluorescent Customer Display



CD5220 customer display

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CD5220 customer display

1. FEATURES

- 40 Characters (20 columns x 2 lines).
- Easy to read blue-green fluorescent color and large characters.
- Adjustable viewing angle of 8-35° and rotation angle of 270°.
- Two segment poles provide 4 adjustable heights.
- DIP switch selectable emulation modes:
CD5220 UTC AEDEX ADM787 ADM788 EscPOS DSP-800.
- User-defined characters can be downloaded.
(CD5220, DSP-860, and EPSON command mode only)
- A code-generated software is provided for user to download own characters to the display (saving to EEPROM is an option).
- Selectable international character sets.
- User-defined message can be downloaded to display. (DSP-800 only)
- Display area can be controlled by window function. (EPSON only)
- Available in either RS-232C or Centronics interface. Selectable baud rates of 4800,9600 bps for RS-232C interface. An EEPROM option is available for setting from 300 to 19200 bps by software.
- A Pass-Through function is available which allows both printer and display to be connected to the same communication port.

CD5220 customer display

2. TYPE CLASSIFICATION

CD5220 - **S** **T** **12** **N** **PT**
I **II** **III** **IV** **V** **VI**

No	Type name	Type name	Description
I	Mode No.	CD5220	CD5220 display
		CD6220	CD6220 display
II	Interface	S	Serial port (RS232C)
		P	Parallel port (Centronics)
III	Base section	T	Rectangle base
		C	Circular base
IV	Power input	05	5V DC
		12	12V DC
		24	24V DC
V	Power adapter	N	No adapter
		110	110V AC adapter
		EU	230V AC adapter with EU power core
		UK	230V AC adapter with EU power core
		B	Power bracket for PC
IV	Pass through function	PT	With pass through function
			Without pass through function

CD5220 customer display

3. GENERAL SPECIFICATIONS

NO	ITEM		CD5220	CD6220
1	Display method		Vacuum fluorescent display	
2	Number of character		40 characters (20 columns x 2 lines)	
3	Display color		Blue green	
4	Luminance		700 cd/m2	850 cd/m2
5	Character type		96 alphanumeric 13 international character set 1 user define character set	
6	Character font		5 x 7 dot matrix	
7	Character size		9mm x 5.25mm	11.2mm x 6.4mm
8	Character pitch		8.3mm	9.9mm
9	Power supply		5V DC / 12V DC / 24V DC	
10	Power consumption		5W / 4.5W / 4.5W	
11	MTBF-power on time		25000 hours	25000 hours
12	Dimensions (mm)	Panel	226(w) x 92(h) x 50(d)	260(w) x 100(h) x 64(d)
		Support	231 mm, 90 mm, 231+90 mm	
		Base	Rectangular: 217.5 (w) x 82 (h) x 106 (d) mm Circular: 50 (h) x 70 (r) mm	
13	Viewing angle		8 – 35 degrees	-5 – 35 degrees
14	Rotation angle		Maximum 270 degrees	
15	Weight		0.92 Kg	1.08 Kg
16	Environmental Conditions		Temperature Operating : 5 – 45 C Storage: 30% – 85%	Humidity -10 – 55 C 30% – 85%
17	Applicable Standards		FCC class A CE	

Table 3-1

CD5220 customer display

4. INTERFACE SPECIFICATIONS

4.1. Communication

4.1.1. Serial port (RS232C) communication

(a) The interface specification are based on EIA RS232C baud rate 9600 or 4800 bps (selectable by DIP switch, refer Table 4-7) 8 data bits, no parity, 1 or more stop bits

(B) SERIAL PORT (RS232C) COMMUNICATION FLOW

1. Data flow : PC/host to display, display to printer, printer to PC/host
2. Control flow : DISPLAY TO PC/HOST, PRINTER TO DISPLAY, PC/HOST TO PRINTER

(c) CD5220/CD6220 will deactivate DTR or RTS signal to PC/host with following two conditions.

1. Printer deactivates DTR or RTS signal.
2. The pass through buffer in CD5220/CD6220 is full (200 bytes).

* If PC/host keeps transmitting the data to printer when CD5220/CD6220 deactivated DTR or RTS, data will be lost.

4.1.2 Serial port interface for circular base

A. Power connector

Connector type: DC jack (5.5 / 2.1)

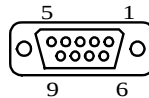


GND 5V or 12v

B. RS232C interface to PC/HOST cable

PC/HOST side connector pin assignment

Connector type: D-sub 9 pin (Female)



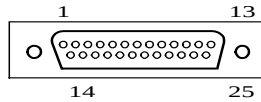
No	Signal	direction	Function description
1	FG	-	Frame ground
2	TXD	From printer to PC/Host	Printer status data
3	RXD	From PC/Host to display	Receive data
4	DSR	From PC/Host to printer	PC/Host ready signal
5	GND	-	Signal ground
6	DTR	From display to PC/Host	Display/printer ready signal
7	CTS	From PC/Host to printer	PC/Host ready signal
8	RTS	From display to PC/Host	Display/printer ready signal

Table 4-3

CD5220 customer display

C. RS232C interface to printer cable

Printer side connector pin assignment



Connector type: D-sub 25 pin (Male)

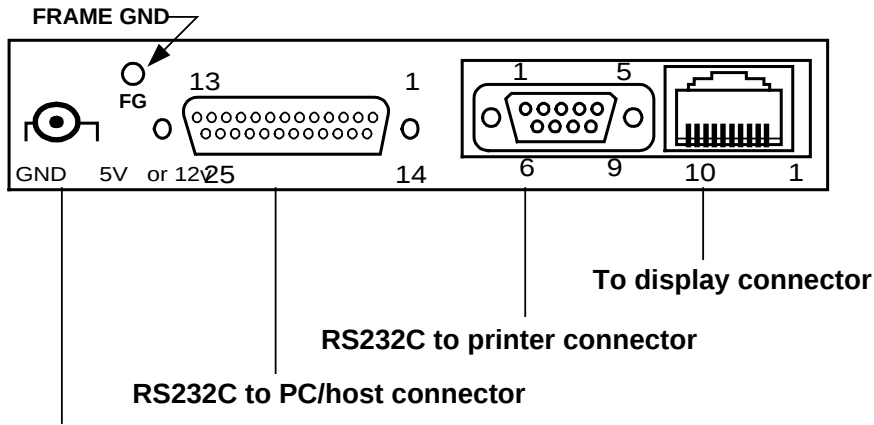
No	Signal	direction	Function description
2	RXD	From printer to PC/Host	Printer status data
3	TXD	From display to printer	Transmit data
4	CTS	From printer to display	Printer ready signal
5	RTS	From PC/Host to printer	PC/Host ready signal
6	DTR	From PC/Host to printer	PC/Host ready signal
7	GND	-	Signal ground
20	DSR	From printer to display	Printer ready signal

Table 4-4

CD5220 customer display

4.2 Serial port interface for rectangle basic section

A. Serial port interface connector position for rectangle basic section



Power input connector

B. Power input

Connector type: DC JACK (5.5/2.1)

C. RS232C to PC/HOST connector pin assignment

Connector type: D-sub 25 pin (Female)

No	Signal	direction	Function description
1	FG	-	Frame ground
2	TXD	From printer to PC/Host	Transmit data
3	RXD	From PC/Host to display	Receive data
4	RTS	From display to PC/Host	Ready to Send signal
5	CTS	From PC/Host to printer	Clear to Send signal
6	DSR	From PC/Host to printer	Data Set Ready signal
7	GND	-	Signal ground
16	V+	Input(optional)	If using external power
20	DTR	From display to PC/Host	Data Terminal Ready signal

Table 4-1

D. RS232C to printer connector pin assignment

Connector type: D-sub 9 pin (Male)

No	Signal	direction	Function description
2	RXD	From printer to PC/Host	Receive data
3	TXD	From display to printer	Transmit data
4	DTR	From PC/Host to printer	Data Terminal Ready signal
5	GND	-	Signal ground
6	DSR	From printer to display	Data Set Ready signal
7	RTS	From PC/Host to printer	Ready to Send signal
8	CTS	From printer to display	Clear to Send signal

Table 4-2

CD5220 customer display

5. FUNCTION SELECTION

5.1 Baud rate

SW number	SW1	Function description	Baud rate(bps)
	OFF		9600
	ON		4800

Table 5-1

Notes: SW1 is ignored when the baud rate is stored to the EEPROM. Baud rate will be referred to the EEPROM baud rate status.

5.2 International character set

SW number				Function description	
SW2	SW3	SW4	SW5	International character set (code 20H-7FH)	Code table (code 80H-FFH)
OFF	OFF	OFF	OFF	U.S.A.	PC-437 (USA, standard Europe)
ON	OFF	OFF	OFF	FRANCE	PC-858(multilingual)
OFF	ON	OFF	OFF	GERMANY	PC-858(multilingual)
ON	ON	OFF	OFF	U.K.	PC-858(multilingual)
OFF	OFF	ON	OFF	DENMARK I	PC-858(multilingual)
ON	OFF	ON	OFF	SWEDEN	PC-858(multilingual)
OFF	ON	ON	OFF	ITALY	PC-858(multilingual)
ON	ON	ON	OFF	SPAIN	PC-858(multilingual)
OFF	OFF	OFF	ON	JAPAN	Katakana
ON	OFF	OFF	ON	NORWAY	PC-858(multilingual)
OFF	ON	OFF	ON	DENMARK II	PC-858(multilingual)
ON	ON	OFF	ON	SLAVONIC	
OFF	OFF	ON	ON	RUSSIA	
ON	OFF	ON	ON	Factory define	
OFF	ON	ON	ON	Factory define	
ON	ON	ON	ON	User define pattern	

Table 5-2

5.3 Command types

SW number			Function description	Software defined
SW6	SW7	SW8	Command type	Hex code
OFF	OFF	OFF	PTC	07
ON	OFF	OFF	UTC Standard	06
OFF	ON	OFF	UTC Enhanced	05
ON	ON	OFF	AEDEX	04
OFF	OFF	ON	ADM 787	03
ON	OFF	ON	ADM 788	02
OFF	ON	ON	ESC/pos	01
ON	ON	ON	DSP800	00

Table 5-3

CD5220 customer display

6. COMMAND

6.1 PTC standard mode command list

Command	Code description(hex)	Function description
ESC DC1	1B 11	overwrite mode
ESC DC2	1B 12	vertical scroll mode
ESC DC3	1B 13	horizontal scroll mode
ESC Q A.....CR	1B 51 41 [n]x20 0D	set the string display mode, write string to upper line
ESC Q B.....CR	1B 51 42 [n]x20 0D	set the string display mode, write string to lower line
ESC Q D.....CR	1B 51 44 [n]xm 0D m<40	upper line message scroll continuously
ESC [D	1B 5B 44	move cursor left
BS	08	move cursor left
ESC [C	1B 5B 43	move cursor right
HT	09	move cursor right
ESC [A	1B 5B 41	move cursor up
ESC [B	1B 5B 42	move cursor down
LF	0A	move cursor down
ESC [H	1B 5B 48	move cursor to home position
HOM	0B	move cursor to home position
ESC [L	1B 5B 4C	move cursor to left-most position
CR	0D	move cursor to left-most position
ESC [R	1B 5B 52	move cursor to right-most position
ESC [K	1B 5B 4B	move cursor to bottom position
ESC l x y	1B 6C x y 1<=x<=20,y=1,2	move cursor to specified position
ESC @	1B 40	initialize display
ESC W s x1 x2 y	1B 57 1 x1 x2 y 1<=x1<=x2<=20 y=1,2	set or cancel the window range at horizontal scroll mode
CLR	0C	clear display screen , and clear string mode
CAN	18	clear cursor line, and clear string mode
ESC * n	1B 2A n 1<=n<=4	brightness adjustment
ESC & s n m [a (p1..pa)]x (m-n+1)	1B 26 1 n m [a(p1..pa)]x (m-n+1) 20<n<=m<=FF	define download characters. a=1-5 p1..p5 =row1..row5
ESC ?	1B 3F	delete download characters.
ESC %	1B 25	select/cancel download character set.
ESC _ n	1B 5F n n=0,1	set cursor ON/OFF
ESC f n	1B 66 n	select international fonts set
ESC c n	1B 63 n	select fonts ,ASCII code or JIS code
ESC = n	1B 3D n n=1,2,3,31,32,33	select peripheral device, Display or Printer
ESC s 1	1B 73 01	store the user defined characters into EEPROM
ESC d 1	1B 64 01	download the user defined characters from EEPROM

Table 6-1

Note: While using command "ESC QA" or "ESC QB", these two commands could be used in conjunction with terminal printer models: TP 2688.or TP3688

* If using commands "ESC QA" or "ESC QB", other commands can not be used except using command "CLR" or "CAN" to change the operating mode.

- If using commands "ESC QD", the upper line message will move continuously until it receives a new command then will clear the upper line and move the cursor to upper line left-most position.

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Set international font set (Table 6-2)

n	International font set	n	international font set	n	International font set
A	U.S.A.	N	NORWAY	A	Compliance with ASCII code
G	GERMANY	W	SWEDEN	J	Compliance with JIS code
I	ITALY	D	DENMARK I	R	Compliance with RUSSIA code
J	JAPAN	E	DENMARK II	L	Compliance with SLAVONIC
U	U.K.	L	SLAVONIC	P	code
F	FRANCE	R	RUSSIA	W	PC858
S	SPAIN		Reserved		WPC1252

Select code table (Table 6-3)

6.2 UTC standard mode command list

Command	Code description (hex)	Function description
BS	08	back space
HT	09	horizontal tab
LF	0A	line feed
CR	0D	carriage return
DLE	10	display position
DC1	11	over write display mode
DC2	12	vertical scroll mode
DC3	13	cursor on
DC4	14	cursor off
ESC d	1B 64	change to UTC enhanced mode
US	1F	clear display

Table 6-4

6.3 UTC enhanced mode command list

Command	Code description (hex)	Function description
ESC u ACR	1B 75 41 [data x 40]0D	upper line display
ESC u BCR	1B 75 42 [data x 40]0D	bottom line display
ESC u DCR	1B 75 44 [data x 40]0D	upper line message scroll continuously
ESC u ECR	1B 75 45 hh ':' mm 0D h,m='0'-'9'	display time
ESC u FCR	1B 75 46 [data x 40]0D	upper line message scroll one pass
ESC u HCR	1B 75 48 n m 0D 20h<=n,m	change attention code
ESC u ICR	1B 75 49 [data x 40]0D	two line display
ESC RSCR	1B 0F 0D	change to UTC standard mode

Table 6-5

CD5220 customer display

6.4 AEDEX mode command list

Command	Code description (hex)	Function description
! # 1CR	21 23 31 [data x 40]0D	upper line display
! # 2CR	21 23 32 [data x 40]0D	bottom line display
! # 4CR	21 23 34 [data x 40]0D	upper line message scroll continuously
! # 5CR	21 23 35 hh ':' mm 0D h,m='0'-'9'	display time
! # 6CR	21 23 36 [data x 40]0D	upper line message scroll one pass
! # 8CR	21 23 38 n m 0D 20h<=n,m	change attention code
! # 9CR	21 23 39 [data x 40]0D	two line display

Table 6-6

6.5 ADM787/788 mode command list

Command	Code description (hex)	Function description
CLR	0C	clear display
CR	0D	carriage return
SLE1	0E	clear up line and move cursor to upper line left most position
SLE2	0F	clear low line and move cursor to lower line left most position
DC0	10 n	set period to upper line last n position 31H<=n<=37H
DC1	11 n	set line blanking , n='1' up line, n='2' low line
DC2	12 n	clear line blanking , n='1' up line, n='2' low line
SF1	1E	clear field 1 and move cursor to field 1 fast position
SF2	1F	clear field 2 and move cursor to field 2 fast position

Table 6-7

CD5220 customer display

6.6 DSP-800 mode command list

Command	Code description (hex)	Function descriptions
EOT SOH I n ETB	04 01 49 n 17	select international character set.
EOT SOH P n ETB	04 01 50 n 17 n=31-58	move cursor to specified position.
EOT SOH C n m ETB	04 01 43 n m 17 31<= n<=m<=58	clear display range from n position to m position and move cursor to n position.
EOT SOH S n ETB	04 01 53 n 17 n=31-35	save the current displaying data to n layer for demo display.
EOT SOH D n m ETB	04 01 44 n m 17 n=31-4F m=31-33	display the saved data
EOT SOH A n ETB	04 01 41 n 17 n=31-34	brightness adjustment.
EOT SOH F n ETB	04 01 46 n 17 00<=n<=FF	flash display screen.
EOT SOH & n [px5] ETB	04 01 26 n p1...p5 17, 20<=n	define download characters
EOT SOH ? n ETB	04 01 3F n 17 20<=n	delete downloaded characters.
EOT SOH = n ETB	04 01 3D n 17 n='1', '2'	select peripheral device. n='1',printer n='2',display
EOT SOH % ETB	04 01 25 17	initialize display
EOT SOH @ ETB	04 01 40 17	execute self-test

Table 6-8

Layer table for saving display data (Table 6-9)

N	Layer select	n	Layer select	m	show mode
bit 0=1	layer 1	bit 3=1	layer 4	bit 0=1	show mode 1
bit 1=1	layer 2	bit 4=0	layer 5	bit 1=1	show mode 2
bit 2=1	layer 3				

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6. 7 EPSON Esc/pos command list

Command	Code description(hex)	Function description
HT	09	move cursor right.
BS	08	move cursor left.
US LF	1F 0A	move cursor up.
LF	0A	move cursor down.
US CR	1F 0D	move cursor to right-most position.
CR	0D	move cursor to left-most position.
HOM	0B	move cursor to home position.
US B	1F 42	move cursor to bottom position.
US \$ x y	1F 24 x y x=1-20,y=01,02	move cursor to specified position.
CLR	0C	clear display screen.
CAN	18	clear cursor line.
US X n	1F 58 n 01<=n<=04	brightness adjustment.
US E n	1F 45 n n=00-ff	blink display screen.
ESC @	1B 40	initialize display.
ESC t n	1B 74 n n=00-0f	select character code table.
ESC R n	1B 52 n n=00-0f	select international character set.
US r n	1F 72 n n=00,01	select/cancel reverse character.
US MD1	1F 01	specify overwrite mode.
US MD2	1F 02	specify vertical scroll mode.
US MD3	1F 03	specify horizontal scroll mode.
ESC & s n m [a(p1..pa)]x m-n	1B 26 1 n m [a(p1..pa)]x m-n 20<n<=m<=ff 20<n<=m<=ff	define download characters. 20<n<=m<=ff a=1-5 p1..p5 =row1..row5
ESC ?	1B 3F 20 n FF	delete download characters.
ESC %	1B 25	select/cancel downloaded character set.

EPSON Esc/pos command list (continued)

Command	Code description(hex)	Function description
ESC W n s x1 y1 x2 y2	1B 57 n s x1 y1 x2 y2 n=1,2,3,4 s=0,1	specify / cancel the window range. 1<=x1<=x2<=20 1<=y1<=y2<=2
ESC = n	1B 3D n n=1,31 ,select printer n=2,32 ,select display	select peripheral device.
US :	1F 3A	set starting/ending position of macro definition.
US ^ n m	1F 5E n m 00<=(n, m)<=ff	execute and quit macro.
US @	1F 40	execute a self-test.
US T h m	1F 54 h m 0<=h<=17 , 0<=m<=3b	display time
US U	1F 55	display time continuously
ESC s 1	1F 73 01	store define download character to EEPROM
ESC d 1	1F 64 01	Restore user define character from EEPROM

Table 6-10

CD5220 customer display

Set international font set for ESC/pos

n	International font	n	International font
0	U.S.A.	7	SPAIN
1	FRANCE	8	JAPAN
2	GERMANY	9	NORWAY
3	U.K.	10	DENMARK II
4	DENMARK I	11	SLAVONIC
5	SWEDEN	12	RUSSIA
6	ITALY	15	Reserved

Table 6-11

Select code table for ESC/pos

n	International font set (80H-FFH)
0	Page 0,(PC437:U.S.A.,standard Europe)
1	Page 1,(Katakana for Japan)
2	Page 2,(PC850:multilingual)
3	Page 3,(PC860:Portuguese)
4	Page 4,(PC863:Canadian-French)
5	Page 5,(PC865:Nordic)
6	Page 6,(SLAVONIC)
7	Page 7,(RUSSIAN)
19	Page 8,(PC858:Euro)
16	Page 9,(WPC1252)

Table 6-12

CD5220 customer display

7. CHARACTER SET

A. Control code set

HEX	CODE	HEX	CODE
00H	NULL	10H	DLE
01H	MD1	11H	DC1
02H	MD2	12H	DC2
03H	MD3	13H	DC3
04H	MD4	14H	DC4
05H	MD5	15H	
06H	MD6	16H	
07H	MD7	17H	
08H	BS,MD8	18H	CAN
09H	HT	19H	
0AH	LF	1AH	
0BH	HOM	1BH	ESC
0CH	CLR	1CH	
0DH	CR	1DH	
0EH	SLE1	1EH	SF1
0FH	RS,SLE2	1FH	US,SF2

B. U.S.A font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
20h																
30h																
40h																
50h																
60h																
70h																

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C. International character selection (Indicated character selection by dip switch or command)

ASCII CODE

NO.	International	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
0	USA												
1	FRANCE												
2	GERMANY												
3	U.K.												
4	DENMARK I												
5	SWEDEN												
6	ITALY												
7	SPAIN												
8	JAPAN												
9	NORWAY												
10	DENMARK II												
11	SLAVONIC												
12	RUSSIA												

D. PC-437 Standard Europe international font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h																
90h																
A0h																
B0h																
C0h																
D0h																
E0h																
F0h																

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E. PC-850 Multilingual international font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	000A	000B	000C	000D	000E	000F
90h	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	001A	001B	001C	001D	001E	001F
A0h	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	002A	002B	002C	002D	002E	002F
B0h	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	003A	003B	003C	003D	003E	003F
C0h	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	004A	004B	004C	004D	004E	004F
D0h	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	005A	005B	005C	005D	005E	005F
E0h	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	006A	006B	006C	006D	006E	006F
F0h	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D	007E	007F

F. PC-860 Portuguese international font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	000A	000B	000C	000D	000E	000F
90h	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	001A	001B	001C	001D	001E	001F
A0h	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	002A	002B	002C	002D	002E	002F
B0h	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	003A	003B	003C	003D	003E	003F
C0h	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	004A	004B	004C	004D	004E	004F
D0h	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	005A	005B	005C	005D	005E	005F
E0h	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	006A	006B	006C	006D	006E	006F
F0h	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D	007E	007F

G. PC-863 Canadian French international font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	000A	000B	000C	000D	000E	000F
90h	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	001A	001B	001C	001D	001E	001F
A0h	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	002A	002B	002C	002D	002E	002F
B0h	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	003A	003B	003C	003D	003E	003F
C0h	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	004A	004B	004C	004D	004E	004F
D0h	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	005A	005B	005C	005D	005E	005F
E0h	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	006A	006B	006C	006D	006E	006F
F0h	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D	007E	007F

CD5220 customer display

H. PC-865 NORDIC (international font set)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
90h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
A0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
B0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
C0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
E0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
F0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

I. SLAVONIC Font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
90h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
A0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
B0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
C0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
E0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
F0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

J. RUSSIA font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
90h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
A0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
B0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
C0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
D0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
E0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
F0h	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

CD5220 customer display

K. Katakana font set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h																
90h																
A0h																
B0h																
C0h																
D0h																
E0h																
F0h																

L. PC-858

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h																
90h																
A0h																
B0h																
C0h																
D0h																
E0h																
F0h																

M. WPC1252

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
80h																
90h																
A0h																
B0h																
C0h																
D0h																
E0h																
F0h																

CD5220 customer display

8. INSTALLATION GUIDE

