



AF-LED7Seg-Platz user manual - ver 1.21.xml

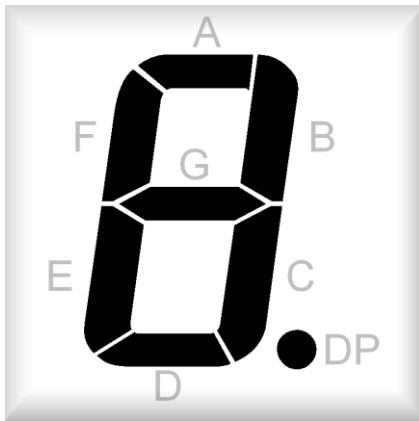


Figure 1: Segment mapping



Figure 2: Simulated LCD display with AF-LED7Seg-Platz font



Figure 3: Simulated LED display with AF-LED7Seg-Platz font

1 Why use fonts from Fortune Fonts?

Most LED/LCD fonts cannot be used to represent electronic displays accurately. Your frustration arises from the facts that:

1. The shape of the segments and spacing between characters are not an accurate match for the display.
2. The spacing between characters changes when entering a decimal point or colon between them.
3. Custom characters are difficult or impossible to enter: you want to turn on a special pattern of segments the font designer did not include in the font.

Fortune Fonts fonts overcome these limitations, allowing you to easily produce datasheets and manuals showing exactly how the display looks for your product manuals and mock-ups.

2 About this font

This document describes how to use the AF-LED7Seg-Platz font to prepare documents that accurately represent segmented displays. Other fonts are available for displays with a different number of segments, or with segments of a different shape. See “Other fonts available from FortuneFonts” on page 8.



3 Using the font

3.1 Installation

To install the font, see “General notes on fonts” on page 6.

3.2 Using the characters

There are four available methods for using a character in your documents. All methods require that the font be installed on your machine. All 128 combinations of segments are available, depending on which method you use to enter the characters.

You might find the following page helpful in choosing a character for your needs:
http://en.wikipedia.org/wiki/Seven-segment_display_character_representations

3.2.1 Method 1: Typing the characters by direct entry

This is the easiest method: just use the keyboard to enter characters. See **Table 2** as a guide.

3.2.2 Method 2: Browsing using “Insert Symbol”

In Microsoft Office applications, you can use Insert | symbol and browse all the characters available before inserting them. You must select “Unicode (hex)” in the dialogue box to see the full set of available characters.

3.2.3 Method 3: Copying and pasting

Copy and paste from this document, then change the font to AF-LED7Seg-Platz for the characters you pasted into your document. See Table 2 and Table 3.



3.2.4 Method 4: Using numeric keypad to type character codes

An exhaustive set of all possible 128 LED segment combinations starts at character code 1000. (Placing them lower would overlap with tab and new paragraph characters.) Under Windows, these can be entered into Word by changing the font to AF-LED7Seg-Platz, holding down ALT, and entering the 4 digit code on the numeric keypad. For other operating systems such as Mac OS or X11, see http://en.wikipedia.org/wiki/Unicode_input.

See **Table 2** and **Table 3** as a guide. If you want to work out the codes for yourself, see Table 1.

Table 1: Determining character code from segment pattern

Example Character	Segments (See Figure 1 on page 1)							Character Code
	G 64	F 32	E 16	D 8	C 4	B 2	A 1	
!	0	0	0	0	1	1	0	$1000+4+2 = 1006$
=	1	0	0	1	0	0	1	$1000+64+8+1 = 1073$

Examples: To get **!** hold down ALT and type 1006 on the numeric keypad. To get **=** hold down ALT and type 1073 on the numeric keypad.

3.3 Entering the decimal point, comma, colon and top-spot

These characters are entered using the full stop, comma, colon and | keys respectively. The spacing does not change when you place these characters between other characters. I.e. They are zero width in terms of moving the cursor along. E.g.

123400 1234 4556
 1,234.00 12:34 45'56

The punctuation characters above are in the default style for this font. If you prefer the alternative punctuation characters in the style shown in the line below, enter them using method 2,3 or 4 described above. The codes to enter are shown at the bottom of Table 2 (page 4).

1,234.00 12:34 45'56

3.4 Font tables

To see the characters properly in a document you generate, you will first need to install the font.



Table 2: Characters to type for direct entry

Character Code	Keyboard Character	AF-LED7Seg-Platz
30	-	-
31		
32		
33	!	!
34	"	"
35	#	11
36	\$	5
37	%	7
38	&	t
39	'	'
40	(L
41)	L
42	*	11
43	+	+
44	,	,
45	-	-
46	.	.
47	/	7
48	0	0
49	1	1
50	2	2
51	3	3
52	4	4
53	5	5
54	6	6
55	7	7
56	8	8
57	9	9
58	:	:
59	;	J
60	<	[
61	=	=
62	>	=
63	?	7
64	@	d
65	A	A
66	B	B
67	C	[
68	D	0
69	E	E
70	F	F
71	G	G
72	H	H
73	I	I
74	J	J
75	K	H
76	L	L
77	M	11
78	N	n
79	O	0
80	P	P
81	Q	0
82	R	A
83	S	5
84	T	7
85	U	U
86	V	U
87	W	11
88	X	H
89	Y	P
90	Z	2
91	[[
92	\	4
93]]
94	^	n
95	_	-
96	`	'
97	a	A
98	b	b
99	c	c
100	d	d
101	e	P
102	f	F
103	g	9
104	h	h
105	i	'
106	j	J
107	k	h
108	l	I
109	m	11
110	n	n
111	o	o
112	p	P
113	q	9
114	r	r
115	s	5
116	t	t
117	u	u
118	v	u
119	w	11
120	x	H
121	y	Y
122	z	2
Alternative Punctuation Marks		
1130		.
1131		,
1132		'
1133		:

**Table 3: Character codes for all segment combinations**

Character Code	AF-LED7Seg-Platz								
1000		1024	L	1051	P	1078	J	1105	E
1001	-	1025	L̄	1052	h	1079	3	1106	u
1002	ˊ	1026	Lˊ	1053	fi	1080	r	1107	o
1003	ˋ	1027	Lˋ	1054	h	1081	ˋ	1108	5
1004	ˊ	1028	u	1055	n	1082	ˋ	1109	5
1005	ˋ	1029	ū	1056	L	1083	ˋ	1110	y
1006	ˋ	1030	J	1057	[1084	n	1111	9
1007	ˋ	1031	o	1058	Lˊ	1085	ˋ	1112	t
1008	-	1032	ˊ	1059	o	1086	h	1113	F
1009	-	1033	r	1060	u	1087	h	1114	P
1010	-	1034	ˋ	1061	o	1088	c	1115	P
1011	-	1035	n	1062	u	1089	ˋ	1116	h
1012	-	1036	ˋ	1063	o	1090	ˋ	1117	h
1013	-	1037	ˋ	1064	-	1091	ˋ	1118	H
1014	-	1038	ˋ	1065	-	1092	o	1119	A
1015	-	1039	ˋ	1066	ˋ	1093	ˋ	1120	t
1016	-	1040	ˋ	1067	ˋ	1094	d	1121	E
1017	-	1041	ˋ	1068	ˋ	1095	d	1122	ˋ
1018	-	1042	ˋ	1069	ˋ	1096	ˋ	1123	P
1019	-	1043	ˋ	1070	ˋ	1097	c	1124	b
1020	ˋ	1044	ˋ	1071	ˋ	1098	u	1125	6
1021	ˋ	1045	5	1072	-	1099	o	1126	H
1022	ˋ	1046	y	1073	-	1100	ˋ	1127	8
1023	ˋ	1047	ˋ	1074	ˋ	1101	ˋ		
		1048	ˋ	1075	ˋ	1102	ˋ		
		1049	ˋ	1076	ˋ	1103	ˋ		
		1050	ˋ	1077	ˋ	1104	ˋ		



4 General notes on fonts

4.1 Installing fonts in Windows

Open the fonts directory on your computer and copy the font file there. In Windows XP this can be done by: Start | Control Panel | Fonts

If you are trying to install another version of the same font, you will have to delete the current installation of the font from this directory first. To delete fonts, you will have to close any open programs that use fonts, e.g. Microsoft Word. You may need administrator privileges to install fonts.

4.2 Generating pdf documents with special fonts

Pdf documents that display the special font can be distributed with the font built into them. This means that the viewer of the document does not need to have the font installed on their computer.

4.2.1 Generating pdfs with PDF995

Be sure to check the option to include the font inside the document:

Print | Properties | advanced | graphic | download as soft font
 Print | Properties | advanced | document | postscript | true font download option

PDF995 is free and available from <http://www.pdf995.com/>

4.2.2 Generating pdfs with Microsoft Word 2007

Use file | save as | pdf

5 User manuals using outline font

In user manuals, it is often important to show all segments in outline form in the background.

1. Put an outline image of the display in the background showing all possible segments displayed in a low contrast colour. To generate the outline, enter the characters as normal, and then, in Microsoft Word, select the text, right click on it and choose font | effects | outline. Change the font colour to grey.
2. Copy this text box and paste it over the previous one. Turn off the outline option for this text box. Replace the text with what is supposed to be displayed and change the font colour to black.



Figure 4: Using Word font effects to generate outline font.

If the outline option is not to your liking, you can use a solid low contrast fill as described in "Realistic looking displays" below.



6 Realistic looking displays using Microsoft Word 2010

You can make a display look more realistic by showing all available segments in a low contrast colour:

1. Put an image of the display in the background.
2. Put a text box on over that showing all possible segments displayed in a low contrast colour. The display in Figure 5 has the following characters in AF-LED7Seg-Platz font

8.8.8.8.




3. Copy and paste the text box over the top and change the font colour to the colour of active segments. Making the text boxes a different width makes selecting each one easier.
4. Change the characters to the desired display. Change the font colour just a little for each character to simulate a varying viewing angle.
5. You can alter the colour within each segment to provide more realism. To do this:
 - a. From the home tab, click on "Text Effects" 
 - b. Choose Shadow | internal
 - c. Click on "Text Effects"  again
 - d. Choose Shadow | Shadow options and set
 - i. Transparency to 50%
 - ii. Blur to 5
 - iii. Distance to 4
6. You can add a glow effect to provide more realism for emissive displays. To do this:
 - a. From the home tab, click on "Text Effects" 
 - b. Choose Glow | Glow options
 - c. Choose a colour the same or similar to the colour of the font
 - d. Set size to 6
 - e. Set transparency to 70%
7. Use Format | Send backward if the ordering of the layers need correcting.
8. In Word 2007, you can simulate a glass layer over the top by using a rectangle with the "chrome" preset gradient fill. On the "Fill effects" gradient tab, set the "from" transparency to 80% and the "to" transparency to 95%.





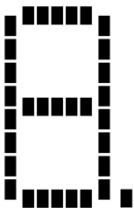
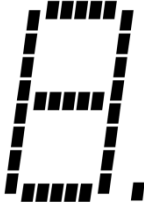



Figure 5: Example of a realistic looking LED display using this method



7 Other fonts available from FortuneFonts

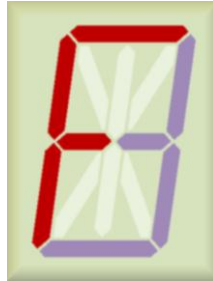
Table 4: Other fonts available from FortuneFonts

Name	Segment Shape
AF-LED7Seg-1	
AF-LED7Seg-2	
AF-LED7Seg-3	
AF-LED7Seg-Platz	
AF-LED7Seg-dots1	
AF-LED7Seg-dots2	
AF-LED14Seg-1	



8 Contact Us

Contact us to ask questions about this font, or about any other fonts that you need. There is a wide selection of fonts available that accurately represent electronic displays.



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