



# Application Note

Symbols & International Characters on the QTERM-K65

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## Displaying Special Symbols and International Characters Using Extended ASCII Fonts on the QTERM-K65

The QTERM-K65 and the FormBuilder software support fonts with up to 256 characters. Typically the “lower” 128 characters of a font are the ASCII character set. The “upper” 128, or extended character set, provides foreign characters and special symbols.

The QTERM-K65 ships with three font sizes: 5x7 (DF or default font), 5x11 and 8x16. These three fonts support the standard ASCII character set but do not support the extended character set. We have now developed three new fonts with support for all 256 characters:

**5x7ext.gcm** 5 pixels wide by 7 pixels high  
**5x11ext.gcm** 5 pixels wide by 11 pixels high  
**8x16ext.gcm** 8 pixels wide by 16 pixels high

Each of these fonts contain the standard ASCII character set (lower 128) as well as additional international characters and symbols (upper 128).

### Using Fonts in Your Workspace

To use an extended font to create a form in FormBuilder you must import the font into the project workspace and then use the font in the creation of your form.

**Font Import** (section 4.2.1 in the FormBuilder manual)

- Select *Fonts* from the *View* menu while in the root form of your FormBuilder workspace.
- Select the desired font from the View Fonts dialog box and select *Add*. If no fonts are listed check the \Example Files\Graphics folder.
- If you were unable to see new fonts listed in the dialog box you likely have a version of FormBuilder prior to 1.0.0.4 and should download a new copy of the software from our website [www.qsicorp.com](http://www.qsicorp.com).

**Font Use** To make use of the international characters and symbols you must change the properties of the text box (section 4.5.1 of the FormBuilder manual).

- Right click on the text box that will contain the extended character(s) and choose *Object Properties* from the menu to bring up the text properties.
- Select a font in the *Font* field that supports international characters and symbols.
- Type the desired text into the *Data* field of the *Text Properties* box.
- To insert an international character into your text, hold down the *Alt* key on your keyboard and type the *0xxx* number on the *numeric keypad* located on the right side of your keyboard. Where *xxx* is the numerical value of the character you wish to insert. (See the Extended ASCII chart in Table 1).

**NOTE:** *You must use the keys on your numeric keypad to enter in this number. It is important to type in the 0 before entering the number of the character or else Windows will insert a different character.*

It is also possible to type international characters by choosing a different keyboard layout for your computer. To do this open the *Start Menu* on your computer and select *Settings* then *Control Panel*. Double click the *Keyboard* icon and select the *Language* tab. Click on the button labeled *Add* and select the desired language

then click on the *Apply* button. An icon should appear on the task bar indicating the current keyboard configuration. Click on this icon to choose which keyboard configuration to use.

The keyboard may behave very differently than usual when using foreign keyboard configurations, this is normal.

To return to your default keyboard configuration, simply click on the keyboard configuration indicator on the task bar and select the original keyboard configuration.

**Table 1. The Extended ASCII Character Set**

0128	€	0154	š	0180	´	0206	Î	0232	è
0129	□	0155	›	0181	μ	0207	Ï	0233	é
0130	,	0156	œ	0182	¶	0208	Ð	0234	ê
0131	f	0157	□	0183	·	0209	Ñ	0235	ë
0132	„	0158	□	0184	,	0210	Ò	0236	ì
0133	...	0159	Ÿ	0185	¹	0211	Ó	0237	í
0134	†	0160		0186	º	0212	Ô	0238	î
0135	‡	0161	¡	0187	»	0213	Õ	0239	ï
0136	^	0162	¢	0188	¼	0214	Ö	0240	ð
0137	‰	0163	£	0189	½	0215	×	0241	ñ
0138	Š	0164	¤	0190	¾	0216	Ø	0242	ò
0139	‹	0165	¥	0191	¿	0217	Ù	0243	ó
0140	Œ	0166	¦	0192	À	0218	Ú	0244	ô
0141	□	0167	§	0193	Á	0219	Û	0245	õ
0142	□	0168	¨	0194	Â	0220	Ü	0246	ö
0143	□	0169	©	0195	Ã	0221	Ý	0247	÷
0144	□	0170	ª	0196	Ä	0222	Þ	0248	ø
0145	‘	0171	«	0197	Å	0223	ß	0249	ù
0146	’	0172	¬	0198	Æ	0224	à	0250	ú
0147	“	0173	-	0199	Ç	0225	á	0251	û
0148	”	0174	®	0200	È	0226	â	0252	ü
0149	•	0175	¯	0201	É	0227	ã	0253	ý
0150	–	0176	°	0202	Ê	0228	ä	0254	þ
0151	—	0177	±	0203	Ë	0229	å	0255	ÿ
0152	~	0178	²	0204	Ì	0230	æ		
0153	™	0179	³	0205	Í	0231	ç		