



Wireless Innovations for the Production Floor

# Technical Notes

## Formatting Screens –Guidelines for Viewing Information

Note 104- Rev. 0

*The below information is intended to be for guidelines only. Each production floor environment is unique and the customer should determine what is appropriate for the requirements.*

### Selection of Screen Size

The selection of the LCD or Plasma size as well as the letter or number size for the displayed information is both driven by the distance at which the message is to be read.

Rule of Thumb for the Readability of Message:

	Readability
1” Lettering	25 Ft
2” Lettering	50Ft
3” Lettering	100Ft

A 32” LCD is 15” high by 27” wide. Going with the standard of 1” lettering for every 25 feet and at least 1.5” between lines for legible text. We can be safe to say, 6 lines of text would be visible at 25 feet. Now depending on the type of font being used we have a variable number of characters to be place per line. After playing with the display we have in house we have come to the conclusion that 5 characters per cell on a 5 column grid is about the most you can have with out appearing too busy and distracting from the legibility of the display.

We can assume that a 40” display will be a couple of inches higher and wider so it might be possible to say that going with the same 1” letter per 25 feet. We should be able to get 7-8 lines of text by 6-7 columns.

32" display

Title of Display				
Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
Maint	Maint	Maint	Maint	Maint
12345	12345	12345	12345	12345
Qual	Qual	Qual	Qual	Qual
09876	09876	09876	09876	09876

**Below is Some Additional Guideline Information on the Selection of Text Type**

Guideline	Sample Text
Avoid using all uppercase for large text areas.	RESEARCH HAS SHOWN THAT PEOPLE CAN READ FASTER IF WORDS ARE WRITTEN USING MIXED CASE RATHER THAN ALL UPPER CASE. BLOCKS OF BOLD AND ITALICS TEXT ARE MORE DIFFICULT TO READ. BLACK IS EASIER TO READ THAN COLORED FONTS.
Avoid using italics for large text areas.	<i>Research has shown that people can read faster if words are written using mixed case rather than all upper case. Blocks of bold and italics text are more difficult to read. Black is easier to read than colored fonts.</i>
Avoid using bolded text for large text areas.	<b>Research has shown that people can read faster if words are written using mixed case rather than all upper case. Blocks of bold and italics text are more difficult to read. Black is easier to read than colored fonts.</b>
Be careful when using colored text. Use dark text on light backgrounds to provide the most contrast.	Research has shown that people can read faster if words are written using mixed case rather than all upper case. Blocks of bold and italics text are more difficult to read. Black is easier to read than colored fonts.
Mixed-case, black and unbolded is easier to read for large text areas. Use color and bold only to call attention to important items.	Research has shown that people can read faster if words are written using <b>mixed</b> case rather than all upper case. Blocks of bold and italics text are more difficult to read. Black is easier to read than colored fonts.

