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Static Electric Warning

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OVERVIEW

AND display devices support inline text message markup functionality, which makes it possible to define text and LED flasher behavior when setting up messages within InformaCast and other compatible third-party software. This capability allows the user to leverage more from AND devices, such as changing text fonts, colors, shadows, and flashing, as well as sending messages, images, and controlling accompanying LED flashers (if available on the device).

This document provides steps on how to setup the device, instructions to configure these parameters within the message text, as well as a list of supported parameters.

DEVICE SETUP

Before you can use inline markup with Singlewire's InformaCast Messages, you must first enable each device to allow inline text commands.

If using the device's web page interface, go to **Device Settings** \rightarrow **Servers** for the *Misc Server Options* section. Set the parameter *Allow inline text commands with InformaCast* to "Yes".

Misc. Server Options			help
Parameter	Stored value	New Value	Notes
Server Registration Interval, seconds	300	300	Default is 300 (5 minutes)
Server Registration Failures Send SNMP Trap	0	0	Consecutive failure count. Zero disables.
Server Registration Failure Reboot Option	Default	Default	Affects operation when server(s) are configured but none are available. SIP can be designated for server failover, in which case rebooting is inhibited if SIP is registered.
Auto Syn-Apps Option 72 Servers	No	No 🗸	DHCP Opt. 72 server(s) supplied: 10.10.6.189
GPIO min update period, ms	250	250	Range: 100-2000. Default: 250
Microphone Statistics Callback Trigger Level	0	0	See Device Status page for current level.
Microphone Statistics Triggers Send SNMP Trap	No	No 🗸	Enable traps when crossing triger level.
InformaCast Capture Heartbeat Interval, seconds	2	2	Default is 2
Allow inline text commands with InformaCast	Yes	Yes 🗸	Text from InformaCast is scanned for embedded curly-brace comands, such as { color=red;flashers=XXC }.
Time Offset, minutes	0	0	Adjustment to time supplied by the server

If using a configuration file, add the following option to the display tag:

```
<display
   allow_inline_commands_shorttext="1"
/>
```









SENDING TEXT TO AND DEVICES

Once the AND device or group of AND devices allows inline text markup, you can add parameters, inline with the text message, to control the behavior of that text, display on-board pixmaps, images, or trigger any LED flashers on the targeted device(s). The device(s) will process these changes via one or more name-value pairs within curly braces "{}". In InformaCast applications, this markup should be added to the *Short Text* field of the InformaCast Message. See the **APPENDIX** for a full list of parameters and their function.

Syntax to add:

{parameter1=value;parameter2=value}

Example:

{color=green;bgcolor=red}Display red text with a green background.

You can modify the font color and effects per sentence, phrase, word, or even individual characters, if desired. To return to default colors and effects within the text, set the parameter value(s) to a blank value, or specify *default*.

Example:

```
Display {color=red;bgcolor=green}red text. Now display the
{color=default;bgcolor=}default color.
```

Note: The following parameters will not work per-character. They only apply to the whole message. This functionality includes the LED flasher behavior, which will activate only for the duration of the displayed message.

flashers	flash
flashers_b	flash_dc
loops	scroll
speed	splitting
font	autosplit
shadloc	still_ms
imageX	







APPENDIX

Parameter	Default	Description	
loops	1	The number of times to display the message. Zero means continual. Note: Available in firmware release 1.6.0002 or later.	
speed	5	The scroll speed. Note: Available in firmware release 1.6.0002 or later. Range: 1 (slowest) to 10 (fastest).	
pause	0	<pre>Enables a single text message to break into separate messages. Set {pause=x} within the text message to indicate where the text should break, and the display will pause x seconds before continuing with the next part of the text. Note the clock will be displayed during this pausing period. Example: Display some text. {pause=3} Then display this text 3 seconds later. Include {pause=} or {pause=0} to separate the two parts of the message by the width of the display, that is, the next part of the message will not display until the previous part scrolls off the display.</pre>	
font	n/a	The message font type (from the following options): Arial Bold arial_bold Arial (Larger size) arial_huge Dotum dotum Dotum Bold dotum_bold Dotum (Larger size) dotum_huge Dotum Bold (Larger) dotum_bold_huge Small font* and_8high Smaller font* and_7high Tiny font* and_5high	







scroll	horizontal	Specifies the direction of scrolling: left, right, horizontal, up, or setting, horizontal, will scroll the message left or right based use. For example, English characters will scroll left (from right and Hebrew characters will scroll right (from left to right).	on the character set in
		Scrolling Description	Scroll string
		Horizontal, left or right depending on character set	horizontal, horiz
		Left, from right to left	left
		Right, from left to right	right
		Up, from bottom to top	up
		Down, from top to bottom	down
		Still, no scrolling	still
		Note: Available in firmware release 1.6.0003 or later.	
splitting	0 (off)	Specifies how to display static text. If this value is 0, the text is scrolled, normally. Other values display the text in pieces, statically on the screet should be un-specified or set to still. Valid non-zero values are: 1: displays a single line of text at once 2: displays two lines of text at once 3: displays three lines of text at once, with the top one smaller 23: displays two lines of text at once, with the bottom smaller 20: displays two lines of text at once, both using a small font. If this parameter is set to a valid non-zero value, it will split the either using the pipe characters, " ", in the message as line so automatically, if the <i>autosplit</i> parameter is set to 1. Note: Available in firmware release 1.6.0003 or later.	er er he message based on
autosplit	0 (off)	Specifies whether the text message should be split automatic split with the pipe character, " ". If this is on, "1", the text is as many words as possible may be displayed on one line. This down scroll modes. Note: Available in firmware release 1.6.0003 or later.	split automatically so that
still_ms	1000	In <i>still</i> scroll mode, this specifies the duration to display each Note: Available in firmware release 1.6.0003 or later.	part of the static text.







color	n/a	The foreground message color (for dual-color displays). Specify a text string, or use a 4-				
		bit hexadecimal nu	umber fron	n the list belo	w, such as such as {color=green} or	
		{color=c}.				
		Hexadecimal	Color	Green Level	Red Level	
		0	Black	0	0	
		1	Cranberry	y 0	1	
		2	Cherry	0	2	
		3	Red	0	3	
		4	Hunter	1	0	
		5	Sienna	1	1	
		6	Terracott	a 1	2	
		7	Vermillio	n 1	3	
		8	Olive	2	0	
		9	Tan	2	1	
		а	Ochre	2	2	
		b	Pumpkin	2	3	
		с	Green	3	0	
		d	Yellow	3	1	
		е	Gold	3	2	
		f	Orange	3	3	
bgcolor	black	The background m	essage col	or (for dual-co	olor displays). Specify a text string or the 4	
		-	-		art, such as {color=red} or	
		{color=3}.			- , , -	
shadcolor	(not	The font shadow c	olor (for d	ual-color disp	lays). Specify a text string or 4-bit	
	drawn)	hexadecimal num	per from th	ne color chart	<pre>above, such as {color=black} or</pre>	
		{color=0}.Spe	ecify both s	shadcolor and	shadloc, or no shadow will display.	
shadloc	(no	A one- to four-cha	racter strir	ng that specifi	es the location of the text shadow, in	
	shadow)	relation to the fore	eground ch	haracter. Typio	cal values (not case-sensitive):	
		U	up			
		UR	up and to	the right		
		R	right			
		DR	down and	d to the right		
		D	down			
		DL	down and	d to the left		
		L	left			
		UL	up and to	the left		
		O or UDLR	fully outli	ne the comple	ete perimeter of the character	
		Note: Specify both	shadcolor	and shadlor	or no shadow will appear.	



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flash	0 (off)	The number of milliseconds of each flashing period. Special case: Values of 1-10 will flash the text the specified number of times per second, (e.g., flash=3 will flash the text 3 times per second).		
flash_dc	50	The duty cycle of the flashing text. Range: 0 to 100.		
flash_fg	bgcolor	The color of the foreground text during the flashing period. If no value specified, it will match the <i>bgcolor</i> value.		
flash_bg	bgcolor	The color of the background during the flashing period. If no value specified, it will match the <i>bgcolor</i> value.		
flash_shad	bgcolor	The color of the shadow during the flashing period. If no value specified, it will match the <i>bgcolor</i> value.		
flashers	n/a	A three-character field, controlling the state of the left, middle, and right LED's respectively: 0 or 0 off S slow blink (200ms on, 800ms off) F fast blink (200ms on, 300ms off) 1 or C on x or X indicates not to change the state 2, 3, 9 a 2-9 second flashing period The on-time remains 200ms for all cases. Note: Available in firmware release 1.6.0002 or later. Specific to IPCSHD-MB model: set color of LED following the state setting above with /color or /hex code: 1/red or 1/#FF0000 on/red F/red or F/#FF0000 fast blink/red S/red or S/#FF0000 slow blink/red		
flashers_b	1	The brightness level of the flashers. Range: 0 (off) to 100 (brightest) This parameter can also accept the following text strings: "dim" equivalent to 50 "full" or "bright" equivalent to 100 Note: Available in firmware release 1.6.0002 or later.		
messagename	n/a	Filename of an on-board message to display. See <u>App Note 50: OnBoard Messages</u> for more details. Note: Available in firmware release 1.6.0002 or later.		



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imageX	n/a	<pre>Filename of the image to display, supported on HD LCD devices. Image can be in the device's onboard file system or on a hosted server. Use the Device Settings->Onboard device menu to upload images. Onboard file example: {image1=Sunrise.png} External file example:</pre>
		<pre>{image1=http://10.10.6.30:8081/InformaCast/resources/Inform aCastHD.png}</pre>



