

## Commands - published TO clock

Topic Root	Topic	Subtopic	Payload	Notes
cmnd/matrix/	mode		n	Values: 0 (clock), 1 (countdown), 2 (scoreboard), 3 (text)
	brightness		nnn	Valid values: 0-255
	buzzer		nnnn	1-9999 (milliseconds to sound)
	font		n	0-2 (0 - Original 7-seg, 1 - Modern, 2=Hybrid)
clock/	color		nnn,nnn,nnn	RGB: 0-255 range for each color
	display		nn	Valid values: 12, 24
	settime		mmm dd yyyy;hh:mm:ss	mmm = Jan, Feb, Mar, etc.
countdown/	color		nnn,nnn,nnn	RGB: 0-255 range for each color
	colorfinalmin		nnn,nnn,nnn	RGB: 0-255 range for each color
	colorpaused		nnn,nnn,nnn	RGB: 0-255 range for each color
	starttime		hh:mm:ss	Max of 23:59:59 (split and convert to milliseconds)
	action		n	Values: 0 (Start), 1 (pause), 2 (reset), 3 (clear)
temperature/	color		nnn,nnn,nnn	RGB: 0-255 range for each color
	symbol		nn	Valid values: 12 (Celsius), 13 (Fahrenheit)
	external		nn	Sets temperature value (from external source)
	correction		-n or +n	Correction value
	refresh		1	Called from clock to force refresh of MQTT temp
scoreboard/	colorleft		nnn,nnn,nnn	RGB: 0-255 range for each color
	colorrigh		nnn,nnn,nnn	RGB: 0-255 range for each color
	teamleft		ccc	Three character team name for left (visitor) scoreboard
	teamright		ccc	Three character team name for right (home) scoreboard
	scoreleft		nn	Valid values: 0-99
	scoreright		nn	Valid values: 0-99
	scoreup		n	Increases by one. n=0 Left, n=1 Right, n=2 Both
	scoredown		n	Decreases by one. n=0 Left, n=1 Right, n=2 Both
	reset		n	n=0 reset left, n=1 reset right, n=2 reset both
text/	message		stringTop SringBottom	Text to display - use & for leading spaces
	colortop		nnn,nnn,nnn	RGB: 0-255 range for each color
	colorbottom		nnn,nnn,nnn	RGB: 0-255 range for each color
	effect		nnn	Effect to apply. 0=none.
	speed		1-10	Speed of effect. 1=slow, 10=fast

States - published FROM clock

Topic Root	Topic	Subtopic	Payload	Notes
stat/matrix/	mode		mode text	Clock, Countdown, Scoreboard, Text
	brightness		0-255	
	font		0-2	
clock/	color/red		0-255	Request time from MQTT/Automation System
	color/green		0-255	
	color/blue		0-255	
	display		12 or 24	
	requesttime		1	
countdown/	color/red		0-255	
	color/green		0-255	
	color/blue		0-255	
	colorfinalmin/red		0-255	
	colorfinalmin/green		0-255	
	colorfinalmin/blue		0-255	
	colorpaused/red		0-255	
	colorpaused/green		0-255	
	colorpaused/blue		0-255	
	starttime		hh:mm:ss	
	status		Running/Stopped	
temperature/			nn.n	Updates every 3 min or as specified in options
	symbol		C or F	
	correction		+/- n.n	
	color/red		0-255	
	color/green		0-255	
	color/blue		0-255	
scoreboard/	colorleft/red		0-255	
	colorleft/green		0-255	
	colorleft/blue		0-255	
	colorright/red		0-255	
	colorright/green		0-255	
	colorright/blue		0-255	
	teamright		ccc	
	teamleft		ccc	
	scoreleft		nn	
	scoreright		nn	
text/	message		cccccc cccccc	Line 1   Line 2
	colortop/red		0-255	
	colortop/green		0-255	
	colortop/blue		0-255	

colorbottom/red	0-255
colorbottom/green	0-255
colorbottom/blue	0-255
effect	0-99
speed	1-10