

<u>CZone Setup For The 701-MDCZ Motorized Battery Switch,</u> With Virtual Load To Provide Circuit Status

<u>Note:</u> These instructions are for a system where the 701-MDCZ switch/switches are only controlled through CZone i.e. there are no mechanical switches/devices also controlling the 701-MDCZ.

If there are also mechanical switches/devices connected in addition to the CZone connection, the Battery Switch Virtual Signal feedback will not show the battery switch status correctly, and instead a sensing connection from the battery switch loads should be wired to a CZone Signal Interface if switch status is to be monitored. Alternatively if any CZone modules are switched On/Off by the 701-MDCZ switch, switch status can be derived from a Virtual Load which turns on whenever the module is powered.

LOAD SETUP (FOR THE OUTPUT INTERFACE):

- Add a Battery Switch
- Add a Battery Switch VS (Virtual Signal)



CIRCUIT SETUP MODES:

To Turn the Battery Switch OFF in a Mode with feedback to Display;

- Setup Mode Name as required
- Setup 'Circuit Control' Switch (Recommended; Single Throw Momentary, On)
- Setup 'Circuit Load'
 - Add "Battery Switch DC" load
 - Configure 'State' of Battery Switch Load to; ON
 - Set Timer for Battery Switch Circuit "When ON; OFF; ON (See Image below)"
 - 'Off' = 0.0 Secs
 - o 'On' = 2.5 Secs
 - Add "Battery Switch VS" Load
 - Configure 'State' of "Battery Switch VS" Load to; OFF

CZone™ Configuration Tool (R6.05.05.12)			Circuit Load Configuration:	
701-MDCZ Config Example	ID: 1 Traf	536515 EEPROM: 658 / 65536 = 1.00% Mc: 0.0% Configuration Firmware	Circuit: Mode Off	
Modules Power Metering Loads Signal Inputs	Circuits AC Mains MasterVolt™ Logic Block	Bata Switching Global Settings	Load:	State:
Configured Circuits (3):	Circuit Controls (1):	Circuit Display Ordering:	Battery Switch (DC)	• On •
Mode Off	Name: Details:	Alphabetical 👻		
Mode On	All Display Interfaces Toggle			
Battery Switch			Timer/Advanced Settings	OK Cancel
	Add Edit Remove	py Paste	Circuit Load Timer/Cycling Settings:	
	Name: Details:		Timer Function:	
	Battery Switch On Battery Switch VS Off		When turned ON: OFF for a period, then ON for a	a period, then Off. 👻
			OFF for: (s) Then ON f	or: (s)
	X		0.0 2.5	A V
			(Set to Zero for no OFF period)	
			On/Off Cycling when ON:	
		N I	Cycle On Period: (s) Cycle Off Po	eriod: (s)
			0.0	×.
Add Edit Remove	Add Edit Remove Edit From	m Table	Control Type: Timer Reso	lution:
Network Status: No Modules Online		New ystem Configuration	Set State - Seconds	
Read Config From Network Write Config to Network	Save Config to File	e Load config From File	Control Directionality:	·
			None	
Switch Configuration			ок	Cancel
Circuit: Mode Off				
All Display Interfaces	•			
			Circuit Load Configuration:	
Switch Type:	Display Button +ON:			
Single Inrow Momentary 👻	Mode Off -		Circuit: Mode Off	
Control Input:			Load:	State:
Modes Menu 👻	Monitoring		Battery Switch VS (VS)	
			- v	
Switch (Output) Eurotions			Timer/Advanced Settings	OK Cancel
	Settings			
1				
Switch Location: (Optional; Maximu	um 32 Characters)			
Advanced Options	OK Cancel			

To Turn the Battery Switch ON in a Mode with feedback to Display;

- Setup Mode Name as required
- Setup 'Circuit Control' Switch (Recommended; Single Throw Momentary, On)
- Setup 'Circuit Load' -
 - Add "Battery Switch DC" load
 - Configure 'State' of Battery Switch Load to; ON
 - Set Timer for Battery Switch Circuit "When ON; OFF; ON"
 - o 'Off' = 0.0 Secs
 - o 'On' = 0.5 Secs
 - Add "Battery Switch VS" Load
 - Configure 'State' of "Battery Switch VS" Load to; ON



To Turn the Battery Switch ON/OFF in a Circuit with feedback to Display;

- Setup Circuit Name as required
- Setup 'Circuit Control' Switch to (Double Throw Momentary; ON(FWD)/OFF(REV))
- Setup 'Circuit Load' -
 - Add "Battery Switch DC" load
 - Configure 'State' of Battery Switch Load to; ON
 - Set Timer for Battery Switch Circuit "When ON; OFF; ON"
 - o 'Off' = 0.0 Secs
 - o 'On' = 0.5 Secs
 - Set "Control Directionality" to 'Forward Controls Only'
 - \circ $\;$ Get here by double clicking the Circuit Load and selecting the Advanced Tab
 - o This will display timer controls and Directionality controls.
 - See below image for clarification
 - Add second "Battery Switch DC" load
 - Configure 'State' of Battery Switch Load to; ON
 - Set Timer for Battery Switch Circuit "When ON; OFF; ON"
 - o 'Off' = 0.0 Secs
 - o 'On' = 2.5 Secs
 - Set "Control Directionality" to '<u>Reverse Controls Only'</u>
 - o Get here by double clicking the Circuit Load and selecting the Advanced Tab
 - This will display timer controls and Directionality controls.
 - See below image for clarification



- Add "Battery Switch VS" Load
- Configure 'State' of "Battery Switch VS" Load to; ON
- Set "Control Directionality" to '<u>Forward Controls Only</u>
 Navigate here as above
- Add second "Battery Switch VS" Load
- Configure 'State' of "Battery Switch VS" Load to; OFF
- Set "Control Directionality" to 'Reverse Controls Only'

Interface Conj Ies Power Meteri ured Circuits (3): 0 Off 0 n ryswitch	g Loads	Signal Inputs	Circuits Circuit Contr Name: All Display Inter	AC Mains ols (1):	MasterVolt**	Traffic Build: Logic Blocks Details: Toggle	Data Switchin Circ	uration F Global uit Display O habetical	irmware Settings Ordering:		Load: Battery Switch	vs (vs)		State:	
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ured Circuits (3): : Off : On : On : yy Switch			Circuit Contr Name: All Display Inter Add	ols (1): faces		Details: loggle	Circ	uit Display O habetical	ordering:		battery switch	•3 (•3)			
e Off : On rry Switch			Name: All Display Inter	faces		Details: loggle	Alş	habetical							
: On ry Switch			All Display Inter	faces		loggie				_					
ry Switch			Add								Timer/Adv	ranced Settings		OK	Cano
			Circuit Loads Name: Battery Switch Battery Switch 1 Battery Switch 1	Edit ; (4): /5 /5	Remove	Copy Details: Do Do Do Do Do	Paste			e	Circuit Load Tim Timer Function None For this long: (s 0.0 Cycle On Perio 0.0 Control Type: Set State	(Cycling Setting):	After being ON for 0.0 Cycle Off Period: (s) 0.0 Timer Resolution: Seconds	at least: (s)	
d Edit ork Status: No Modu Config From Network	Remove es Online Write Cor	nfig to Networl	Add k	Edit	Sav	Edit From	Table New Sy Load	stem Config Config From	uration h File		'Forward' Con	Circuit Load Tim	OK	Cancel	
				🖙 Ciro	it Load Configur	ation:						None			
			Circu	it: Battery Swi	ch						For this long:	5)	After being ON fo	or at least: (s	
				Load					State:			0.0		0.0	
				Batt	ery Switch VS (Timer/Advanc	VS) ed Settings		•	Off	Can	cel	Cycle On Peri	ling when ON: od: (5)	Cycle Off Period: (0.0	5)
									_	-		Control Type: Set State Control Direct	tionality:	Timer Resolution: Seconds Minutes	



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