Tuya device Ozone_PDMtimer

Model: timerPDM02

Tuya: `custom` Tuya Mod: `MQTT device`

Stand alone timer for ozone generators, MQTT interface, node-red and Android UI

Do not requires MQTT broker, uses esp_MQTT
fom a WiFi switch Sonoff S20 or basic.

Power supply: **AC**
Broadcast: **other**
Capabilities: **SET,GET,REFRESH**

Reference: *https://github.com/msillano/Ozone-coronavirus-sonoff/blob/master/PROJECTS-DIY/timerPDM/timerPDM_sonoff_en.pdf*
Infos: *https://github.com/martin-ger/esp_mqtt*
Sellers: *https://www.aliexpress.com/item/32873063240.html*

Known Data Points:

_clock		RW	string	HH:MM:SS (locale)	
	device clock, also in the _info string SET forces _timezone = 0, used in 'soloAP' mode				
_count		PUSH		ONtime|OFFtime...0 [minutes]	
	countdown to TOGGLE Also in the _info string				
_countdown		PUSH		60...0[sec]	
	manual button GO countdown Also in the _info string				
_end		WO		any	
	trigger SET in OFF mode				
_go		WO		any	
	trigger Start now, from remote: immediate				
_info		PUSH		<status> like '08:29:22 Loop: ON 58% (4/5)'	
	For UI, until every second _refreshCycle controls the period				
_led		PUSH		gray|green|red (native 0|1|2)	
	blink green: waiting MODE, green: waiting START | switch OFF, red: switch ON duplicates real LEDs, _refreshCycle controls the period				
_mode		RW		OFF|AUTO|LOOP (native: 0|1|2)	
	Forces passage to OFF. Also mode in the _info string Then wait for '_startTime' (AUTO) or '_go' (AUTO, LOOP immadiate) or button (AUTO, LOOP delayed)				
_off		WO		any	
	trigger SET switch OFF, but don't change mode (pause).				
_OFFtime		RW	int	min	
	For LOOP mode Also in the _info string				
_ONtime		RW	int	min	
	For AUTO and LOOP mode Also in the _info string				

_PDM		RW	int	2..100 (%)	
	Generator power control Also in the _info string				
_pssw		PUSH		Wifi router password	
	SET ssid password and enables STA mode only in 'soloAP' mode				
_refresh		WO		any	
	trigger (same as _send) standard REFRESH function				
_refreshCycle		RW	int	N [sec]	
	Sets push _info, _led period, implemented filtering MQTT (native: 1s) better to use odd numbers to capture led blinking				
_send		WO		any	
	trigger resend some data				
_ssid		PUSH	string	Wifi router name	
	If NOT fallowed by _pssw, blocks STA only in 'soloAP' mode				
_startTime		RW	string	HH:MM[:SS]	
	AUTO mode only Also in the _info string				
_switch		PUSH		0|1 => OFF|ON	BOOLEANONOFF
	Output relay status Also in the _info string				
_timezone		RW	int	-12... + 12	
	Only if clock is from NTP server SET _clock forces _timezone to 0				