

tuyaDAEMON device watering_sys



Model: ver. 1.0

Tuya: derived device Tuya Mod: none

Advanced watering controller, derived from standard Tuya switches

This fake derived device uses one 'smart_breaker' and one Smart_Switch01. Days and time programming.
Fuzzy logic for PDM control using data shared from external sensors.

Power supply: **AC**
Broadcast: **WiFi**
Capabilities: **SET,GET**

Reference:

Infos: https://github.com/msillano/tuyaDAEMON/wiki/derived-device-%27watering_sys%27:-
Sellers: case-study

User defined Data Points:

1	relay	RW	string	ON OFF	
	<i>temporally, until next programmed time. Inheritance from 'smart_breaker',dp(1)</i>				
1ans	share relay	PUSH	string	see dp 1	
	<i>pushed share message internal use</i>				
2	switch	RW	string	ON OFF	
	<i>when the 'switch' is OFF, the 'timer' is disconnected (no power) inheritance from 'Smart_Switch01',dp(1)</i>				
2ans	share switch	PUSH	string	see dp 2	
	<i>pushed share message internal use</i>				
3	toggle timer	WO		any	
	<i>trigger, changes output temporally, until next programmed time Implemented setting 'countdown' = 1</i>				
4	adjust water	RO	number	0...100 (%)	
	<i>calculated by fuzzy controller once a day</i>				
5	waterweek	RW	int	0....	
	<i>litres/week of water. With a slider the user defines the max value.</i>				
6	reset	WO		any	
	<i>trigger. Initialize and restore saved programming data.</i>				
42	circulate	RW	binary	decoded: array of {active: true false, day:SMTWTFS DLMMGVVS, start HH:MM, end: HH:MM, on: HH:MM, off: HH:MM}	
	<i>stored in the breaker: + water/week, + adjust + store-times, to get persistence. inheritance from 'smart_breaker',dp(42)</i>				
42ans	timer circulate	PUSH	binary	see dp 42	
	<i>pushed share message internal use</i>				

111	timer connected	PUSH	boolean	true false	
112	main connected	PUSH	boolean	true false	
201	Temp	PUSH	int	-20... +50 °C	
	<i>External temperature for fuzzy controller 'use' info from 'external' sensor,dp(103)</i>				
202	RH	PUSH	int	0..100 %	
	<i>External Relative Humidity for fuzzy controller 'use' info from 'external' sensor,dp(101)</i>				