

Adapting CyBro PLC application to HIQ commander

HIQ commander can be used without HIQ HW and FW, simply by using variables recognized by HIQ commander in custom CyPro project.

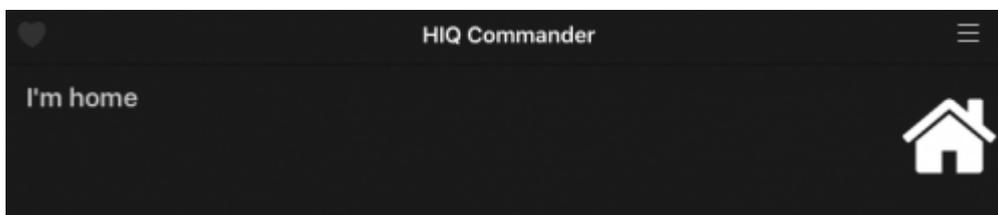
[Custom CyPro project demo](#)

General

condition `program_id=3`

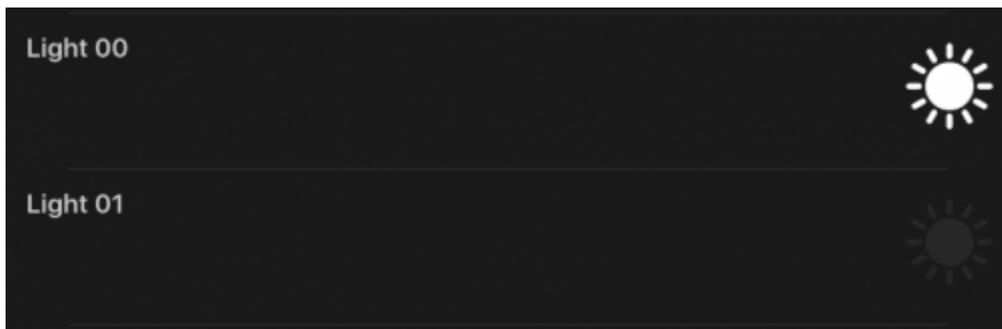
I'm home

condition	none
object	Manual presence indicator
id	p00
name	"I'm home"
description	"/"
variable	toggle presence_indicator r/w; 0=off, 1=on
parameters	/



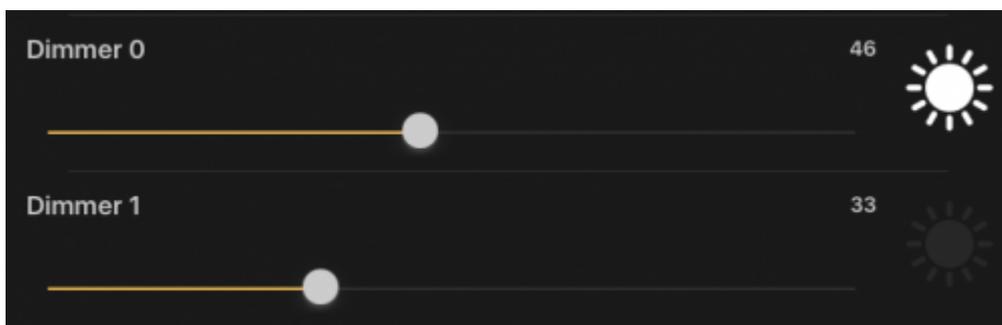
On / Off

condition	lc00_general_error=0 (lc00..lc09)
object	10x light
id	I00..I99
name	"Light 00".."Light 99"
description	"Lights on/off control"
variable	toggle lc00_qx00 lc00..lc09, qx00..qx09; r/w; 0-off, 1-on
parameters	/



Dimmer

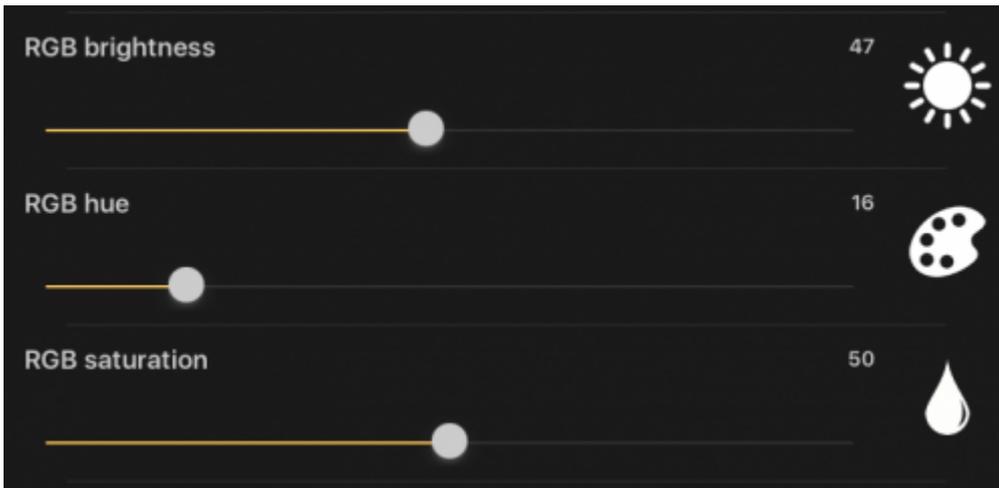
condition	ld00_general_error=0 & ld00_rgb_mode=0 (ld00..ld09)		
object	4x dimmer		
id	d00..d39		
name	“Dimmer 0”..“Dimmer 39”		
description	“On/off and lightness control”		
variable	toggle	ld00_qx00	ld00..ld09, qx00..qx03; r/w; 0=off, 1=on
	slider	ld00_qw00	ld00..ld09, qw00..qw03; r/w; 0=min, 100=max
parameters	/		



RGB Dimmer

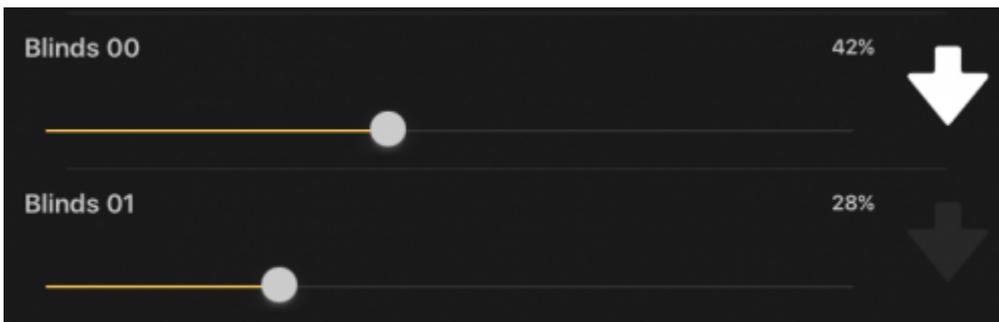
condition	ld00_general_error=0 & ld00_rgb_mode=1 (ld00..ld09)		
object	3x dimmer		
id	r00..r29		
name	“RGB brightness”		
description	“RGB brightness and on/off”		
variable	toggle	ld00_qx00	ld00..ld09, qx00..qx03; r/w; 0=off, 1=on
	slider	ld00_qw00	ld00..ld09, qw00..qw03; r/w; 0=min, 100=max
name	“RGB hue”		
description	“RGB color control”		
variable	toggle	ld00_qw01	ld00..ld09; r/w; 0->16->33->50->66->83->100->0
	slider	ld00_qw01	ld00..ld09; r/w; range 0..100, step 1

name	"RGB saturation"		
description	"RGB saturation: 0..50-white mode, 50..100-color saturation"		
variable	toggle	ld00_qw02	ld00..ld09; r/w; 0->25->50->75->100->0
	slider	ld00_qw02	ld00..ld09; r/w; range 0..100, step 1
parameters	color wheel	ld00_color_wheel	ld00..ld09; r/w; 0-rgb mode, 1-white temperature
		ld00_config_req	ld00..ld09; w/o; 1-request to set color wheel
	color cycling	ld00_color_cycling_enable	r/w; 0-off, 1-on
	evo light	evo_light_enable	r/w; 0-off, 1-on



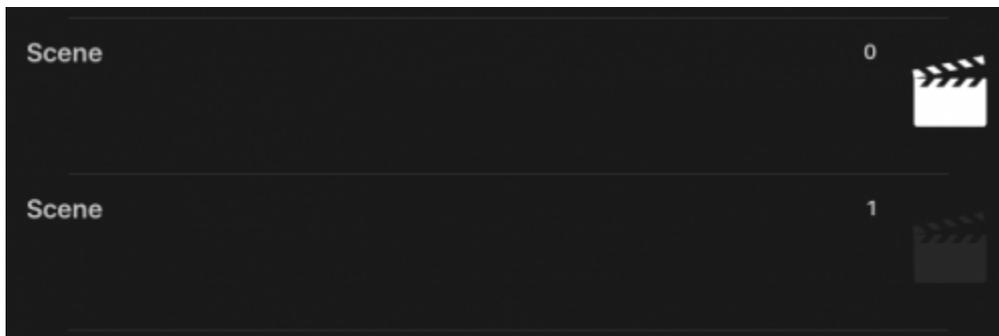
Blinds

condition	bc00_general_error=0 (bc00..bc09)		
object	5x blinds		
id	b00..b49		
name	"Blinds 00".."Blinds 49"		
description	"Blinds position control"		
variable	toggle	bc00_qxs00_up, bc00_qxs00_dn	bc00..bc09, qxs00..qxs04; r/o; 0-stopped, 1-moving
	slider	bc00_blinds_setpoint_00	bc00..bc09, index 00..04; r/w; -2=toggle move/stop, -1=stop, 0=top, 100=bottom
parameters	/		



Scene

condition	none		
object	10x scene		
id	s00..s09		
name	"Scene"		
description	"Scene apply and memorize."		
variable	toggle	current_scene[0]	index 0..9; r/o; -1=not defined, 0=off, 1=on
	set	global_scene_request	w/o; -1=idle, 0..31=scene number
	memorize	global_memory_request	w/o; -1=idle, 0..31=scene number
parameters	scene number	internal	0..31=scene number



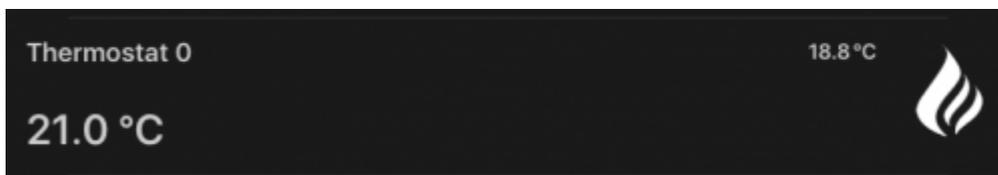
Alarm

condition	none		
object	alarm		
id	a00		
name	"Alarm"		
description	"Burglar alarm with 4 zones."		
variable	state	alarm_state	r/o; 0=off, 1=arming, 2=armed, 3=activating, 4=active, 5=expired
	toggle request	alarm_onoff_req	w/o; 1=request to toggle on/off
	arming counter	alarm_arming_counter	r/o; countdown to 0
	delay counter	alarm_delay_counter	r/o; countdown to 0
	active counter	alarm_active_counter	r/o; countdown to 0
parameters	zone enable	alarm_zone_enable[0]	index 0..3; r/w; 0=disabled, 1=enabled



Thermostat

condition	th00_general_error=0 (th00..th09)		
object	thermostat		
id	t00		
name	“Thermostat 0”		
description	“Temperature and fan settings”		
variable	active	th00_active	r/w; 0=idle, 1=active
	setpoint	th00_setpoint	r/w; Main setpoint [*0.1°C], used when thermostat is active.
	temperature	th00_temperature	r/o; Measured temperature (internal, external or remote) [*0.1°C]. Measurement is adjusted for given offset.
	humidity	th00_humidity	r/o; Measured relative humidity (0..100%rh).
	fan limit	th00_fan_limit	r/w; Fan speed limit: 0-off (0), 1-auto 1 (0/1), 2-auto 2 (0/1/2), 3-auto 3 (0/1/2/3), 4-max (3).
parameters	setpoint limits	th00_setpoint_lo	r/o; Setpoint low limit [*0.1°C]. Valid for both local and remote adjustment.
		th00_setpoint_hi	r/o; Setpoint high limit [*0.1°C]. Valid for both local and remote adjustment.
	fan options	th00_fan_options	r/o; Available fan options: b0-off (0), b1-auto 1 (0/1), b2-auto 2 (0/1/2), b3-auto 3 (0/1/2/3), b4-max (3).
	mode	hvac_mode	r/o; Hvac mode: 0-off, 1-heating, 2-cooling.



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Last update: **2018/10/05 13:05**

