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.

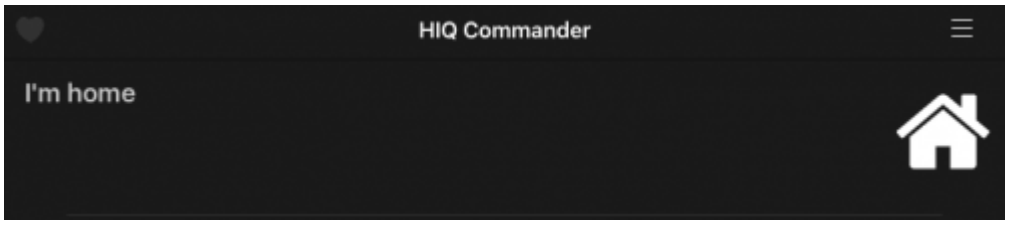
Custom CyPro project demo

General

condition	**program_id=3**

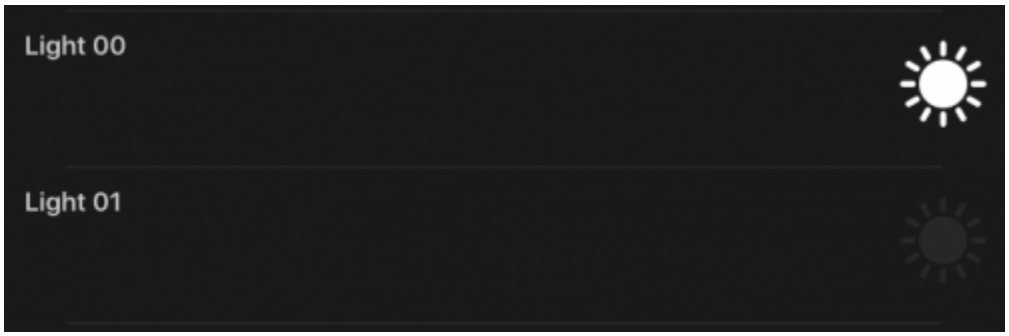
I'm home

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



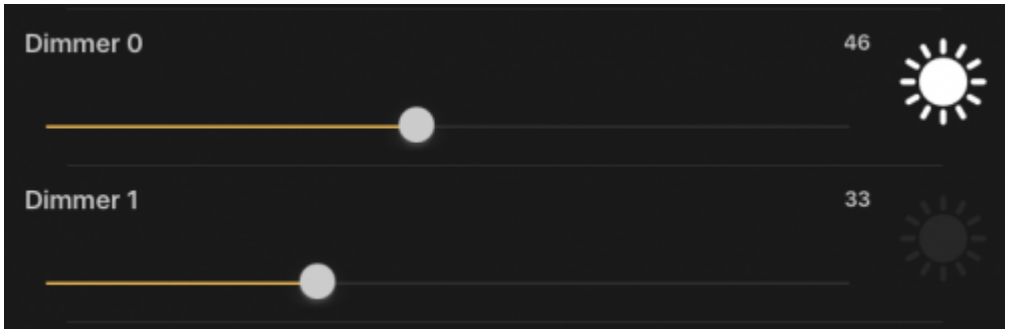
On / Off

condition	**lc00_general_error=0 (lc00..lc09)**		
object	**10x light**		
id	**l00..l99**		
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

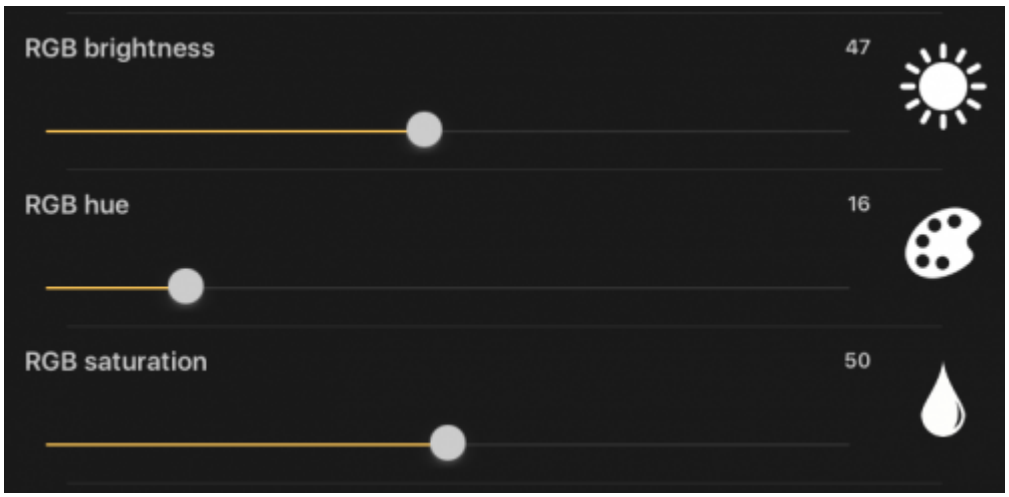
condition	**ld00_general_error=0 & ld00_rgb_mode=0 (ld00..ld09)**		
object	**4x dimmer**		
id	**d00..d39**		
name	**“Dimmer 0”..“Dimmer 39”**		
description	**“On/off and lightness control”**		
variable	**toggle**	**ld00_qx00**	**ld00..ld09, qx00..qx03; r/w; 0=off, 1=on**
	slider	**ld00_qw00**	**ld00..ld09,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



RGB Dimmer

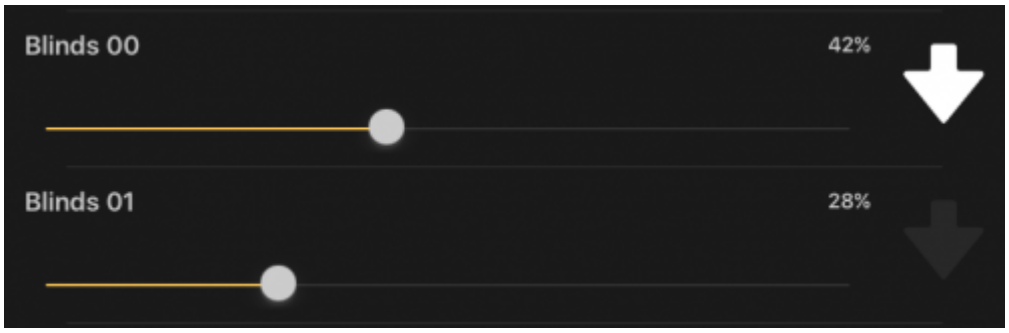
condition	**ld00_general_error=0 & ld00_rgb_mode=1 (ld00..ld09)**		
object	**3x dimmer**		
id	**r00..r29**		
name	**“RGB brightness”**		
description	**“RGB brightness and on/off”**		
variable	**toggle**	**ld00_qx00**	**ld00..ld09, qx00..qx03; r/w; 0=off, 1=on**
	slider	**ld00_qw00**	**ld00..ld09, qw00..qw03; 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**



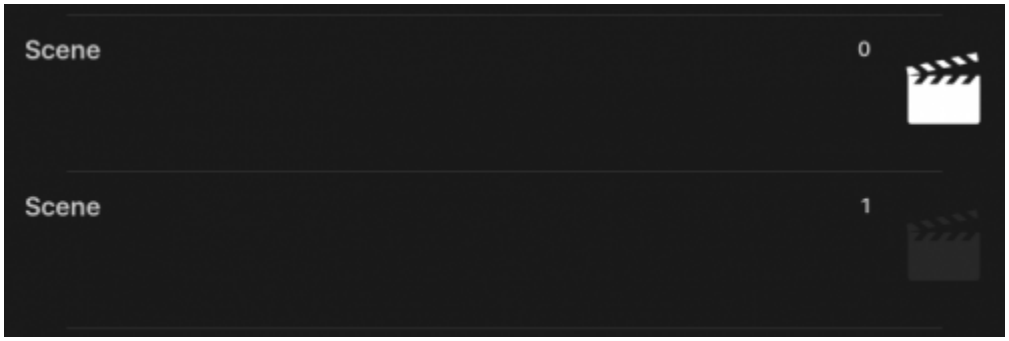
Blinds

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.**