

# TGP driver

## TGP-4A-0X-IQ & TGP-7A-01-IQ proگرامing & CyBro communication driver

### VisualTFT quick guide

SW & examples download:

TGP development SW	<a href="#">VisualTFT</a>
TP-4A-0X-IQ example project	<a href="#">Example project</a>
TGP-7A-01-IQ example project	

### Starting new TP project

- Start VisualTFT
- menu: File → New Project



- in “New Project” dialog set:
  - Project name and Path
  - Select Device Type according following table

Robotina code	VisualTFT Device Type		
	Series	Type	Resolution
TGP-4A-0X-IQ	M Serial	DC48480M040	480 × 480 px
TGP-7A-01-IQ	IOT	DC10600PW070	1024 × 600 px

### TGP Project Settings



### Connecting TP



### 1st time connection



After successful connection TGP should beep.

## Connection after TGP is configured

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## Uploading project to TGP

### Compile and verify project

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### Load to panel

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Load dialog is not translated to English 

## Configuring TGP panel

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## TP screens examples

### Screen ID: 00



ID	type	description
1	button	previous screen

ID	type	description
2	button	home screen
3	button	next screen
10	button	toggle controlled device
11	icon	controlled device icon
12	message	controlled device name

### Screen ID: 01



ID	type	description
1	button	previous screen
2	button	home screen
3	button	next screen
10	button	up controlled device
11	button	down controlled device
12	message	controlled device name
13	icon	controlled device icon

### Screen ID: 02



ID	type	description
1	button	previous screen
2	button	home screen
3	button	next screen
11	button	toggle controlled device 1
13	icon	controlled device 1 icon
15	message	controlled device 1 name
21	button	toggle controlled device 2
23	icon	controlled device 2 icon

ID	type	description
25	message	controlled device 2 name
31	button	toggle controlled device 3
33	icon	controlled device 3 icon
35	message	controlled device 3 name
41	button	toggle controlled device 4
43	icon	controlled device 4 icon
45	message	controlled device 4 name

### Screen ID: 03



ID	type	description
1	button	previous screen
2	button	home screen
3	button	next screen
11	button	up controlled device 1
12	button	down controlled device 1
13	icon	controlled device 1 icon
15	message	controlled device 1 name
21	button	up controlled device 2
22	button	down controlled device 2
23	icon	controlled device 2 icon
25	message	controlled device 2 name

<b>ID</b>	<b>type</b>	<b>description</b>
<b>31</b>	button	up controlled device 3
<b>32</b>	button	down controlled device 3
<b>33</b>	icon	controlled device 3 icon
<b>35</b>	message	controlled device 3 name
<b>41</b>	button	up controlled device 4
<b>42</b>	button	down controlled device 4
<b>43</b>	icon	controlled device 4 icon
<b>45</b>	message	controlled device 4 name

## Screen ID: 04



<b>ID</b>	<b>type</b>	<b>description</b>
<b>1</b>	button	previous screen
<b>2</b>	button	home screen
<b>3</b>	button	next screen
<b>11</b>	button	toggle controlled device 1
<b>13</b>	icon	controlled device 1 icon
<b>15</b>	message	controlled device 1 name
<b>21</b>	button	toggle controlled device 2
<b>23</b>	icon	controlled device 2 icon
<b>25</b>	message	controlled device 2 name
<b>31</b>	button	toggle controlled device 3

ID	type	description
33	icon	controlled device 3 icon
35	message	controlled device 3 name
41	button	toggle controlled device 4
43	icon	controlled device 4 icon
45	message	controlled device 4 name
51	button	toggle controlled device 5
53	icon	controlled device 5 icon
55	message	controlled device 5 name
61	button	toggle controlled device 6
63	icon	controlled device 6 icon
65	message	controlled device 6 name

## Screen ID: 05



ID	type	description
1	button	previous screen
2	button	home screen
3	button	next screen
11	button	up controlled device 1
12	button	down controlled device 1
13	icon	controlled device 1 icon
15	message	controlled device 1 name

<b>ID</b>	<b>type</b>	<b>description</b>
<b>21</b>	button	up controlled device 2
<b>22</b>	button	down controlled device 2
<b>23</b>	icon	controlled device 2 icon
<b>25</b>	message	controlled device 2 name
<b>31</b>	button	up controlled device 3
<b>32</b>	button	down controlled device 3
<b>33</b>	icon	controlled device 3 icon
<b>35</b>	message	controlled device 3 name
<b>41</b>	button	up controlled device 4
<b>42</b>	button	down controlled device 4
<b>43</b>	icon	controlled device 4 icon
<b>45</b>	message	controlled device 4 name
<b>51</b>	button	up controlled device 5
<b>52</b>	button	down controlled device 5
<b>53</b>	icon	controlled device 5 icon
<b>55</b>	message	controlled device 5 name
<b>61</b>	button	up controlled device 6
<b>62</b>	button	down controlled device 6
<b>63</b>	icon	controlled device 6 icon

ID	type	description
65	message	controlled device 6 name

### Screen ID: 06



ID	type	description
1	button	previous screen
2	button	home screen
3	button	next screen
10	picture	HVAC settings frame
11	icon	HVAC fan limits
12	message	HVAC setpoint degrees
13	message	HVAC setpoint decimals and units
21	button	HVAC fan limit increment
22	button	HVAC fan limit decrement
23	picture	HVAC fan icon
31	button	HVAC setpoint increment
32	button	HVAC setpoint decrement
33	icon	HVAC mode (heating/cooling)

### Screen ID: 07



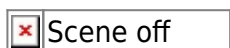
ID	type	description
1	picture	Room number frame
2	icon	Room state icon (idle/DND/MUR)
3	icon	Door-bell icon (disabled/enabled/ringing)
4	picture	Code keypad
5	QCode	Room QR code
10	message	Room number
10	button	toggle controlled device
11	icon	controlled device icon
12	message	controlled device name
20	picture	Room state frame
21	button	Door-bell button
22	button	Code keypad button

### Screen ID: 08



ID	type	description
4	button	Cancel button
5	button	OK button
10-19	button	0-9 button
20-29	message	0-9 text
30	message	Code
60	picture	Code frame

### Controlled devices icons





<input type="checkbox"/>	Scene on
<input type="checkbox"/>	Light off
<input type="checkbox"/>	Light off
<input type="checkbox"/>	Blinds idle
<input type="checkbox"/>	Blinds up
<input type="checkbox"/>	Blinds down
<input type="checkbox"/>	Fan off
<input type="checkbox"/>	Fan 1
<input type="checkbox"/>	Fan 2
<input type="checkbox"/>	Fan 3
<input type="checkbox"/>	DND idle
<input type="checkbox"/>	DND active
<input type="checkbox"/>	MUR idle
<input type="checkbox"/>	MUR active
<input type="checkbox"/>	Backlight off
<input type="checkbox"/>	Backlight On
<input type="checkbox"/>	Alarm off
<input type="checkbox"/>	Alarm on
<input type="checkbox"/>	Alarm ringing

## HVAC fan limits icons

<input type="checkbox"/>	Fan off
<input type="checkbox"/>	Fan limit 1
<input type="checkbox"/>	Fan limit 2
<input type="checkbox"/>	Fan limit 3

## HVAC fan icon

<input type="checkbox"/>	Fan button
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## HVAC mode icons

<input type="checkbox"/>	Cooling
<input type="checkbox"/>	Heating

## Room mode icon

<input type="checkbox"/>	Idle
<input type="checkbox"/>	DND active
<input type="checkbox"/>	MUR active

## Door-bell icons

<input type="checkbox"/>	Doorbell disabled
<input type="checkbox"/>	Doorbell idle
<input type="checkbox"/>	Doorbell ringing

## Code keypad icons

- Code keypad off
- Code keypad on

## CyPro TGP driver

PLC project example

### TGP driver variables

direction	var	description	value
TP → PLC	tpanel_event	TP events (button press, button release, screen change, ...)	ppssooee
PLC → TP	tpanel_beep_req	TP beep request	pptttt
	tpanel_screen_req	TP screen request	ppss
	tpanel_backlight_req	TP backlight request	ppbbb
	tpanel_icon_req	set TP icon request	ppssooii
	tpanel_txt[0..19]	TP text	char
	tpanel_txt_req	set TP text request	ppssoo

### Value legend:

pp	panel	TP RS485 address
ss	screen	TP Screen ID
oo	object	TP object (button, icon) ID
ee	event	TP object event:
		- 01: pressed (fp)
		- 00: released (fn)
		- 09: screen change
ttt	time	Beep time in 10*ms (1-255)
ii	icon	TP Icon index
bbb	backlight	Backlight 0-255 (0=max)

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