TGP driver

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

VisualTFT quick guide

SW & examples download:

TGP development SW	VisualTFT
TP-4A-0X-IQ example project	Example project
TGP-7A-01-IQ example project	

Starting new TP project

- Start VisualTFT
- menu: File \rightarrow New Project

×

- in "New Project" dialog set:
 - Project name and Path
 - $\circ\,$ Select Device Type according following table

Pohotina codo	۱ ا	/isualTFT Devic	е Туре
Robotina code	Series	Туре	Resolution
TP-4A-0X-IQ	M Serial	DC48480M040	480 × 480 px
TGP-7A-01-IQ	IOT	DC10600PW070	1024 × 600 px

TP Project Settings

×

×

Connecting TP

×

1st time connection

×

After successful connection TP should beep.

tgp

Connection after TP is configured

×			
×			
×			
×			
×			
×			

Uploading project to TP

Compile and verify project

Г		1
П	×	L.
		н.

×

Load to panel

ſ	×	l
L		

×

Load dialog is not translated to English



Configuring TP panel

ſ	×	L	
L			

- ×
- ×
- ×

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

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

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

×

Screen ID: 02

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

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

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

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
25	message	controlled device 2 name
31	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

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

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

ID	type	description
65	message	controlled device 6 name

×

Screen	ID: 07
--------	--------

×

Screen ID: 08

×

Controlled devices icons

🔀 Scene off

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)

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

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

×	Scene on
×	Light off
×	Light off
×	Blinds idle
×	Blinds up
×	Blinds down
×	Fan off
×	Fan 1
×	Fan 2
×	Fan 3
×	DND idle
×	DND active
×	MUR idle
×	MUR active
×	Backlight off
×	Backlight 0n
×	Alarm off
×	Alarm on
×	Alarm ringing

HVAC fan limits icons

×	Fan	off	
×	Fan	limit	1
×	Fan	limit	2
×	Fan	limit	3

HVAC fan icon

Fan button

HVAC mode icons

CoolingHeating

Room mode icon

×	Idle
×	DND active
×	MUR active

Door-bell icons

×	Doorbell disabled
×	Doorbell idle
×	Doorbell ringing

tgp

Code keypad icons



CyPro TP driver

PLC project example

TP driver variables

direction	var	description	value
$TP \rightarrow PLC$	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[019]	TP text	char
	tpanel_txt_req	set TP text request	ppssoo

Value legend:

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

From: http://wiki.hiq-home.com/ -

Permanent link: http://wiki.hiq-home.com/doku.php?id=en:ms_main:tgp&rev=1624735349



Last update: 2021/06/26 19:22