

TGP driver

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

VisualTFT quick guide

SW & examples download:

| | |
|------------------------------|---------------------------------|
| TGP development SW | VisualTFT |
| TGP-A-0X-IQ example project | |
| TP-A-W-IQ example project | Example project |
| 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 |
| TP-A-B-IQ | M Serial | DC48480M040 | 480 × 480 px |
| TP-A-W-IQ | IOT | DC48480W040 | 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.

Connection after TP is configured

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Uploading project to TP

Compile and verify project

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Load to panel

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Load dialog is not translated to English 

Configuring TP 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 |

| 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 |

Screen ID: 04



| 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 |

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 |

| 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: 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



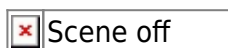
| ID | type | description |
|----|---------|---|
| 1 | picture | Room number frame |
| 2 | icon | Room state icon (idle/DND/MUR) |
| 3 | icon | Door-bell icon (disabled/enabled/ringing) |
| 4 | picture | Code keypad |
| 5 | QCode | Room QR code |
| 10 | message | Room number |
| 10 | button | toggle 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 |
|--------------------------|------------|

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 TP driver

PLC project example

TP 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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