

# TP 6156-WHPS - Touch panel

1190421

<https://www.phoenixcontact.com/us/products/1190421>



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IP66 Touch panel with 15.6-inch widescreen (16:9) HD, PCAP display, Software: Visu+ RT



## Your advantages

- PCAP touch interface, ten-point multi touch control
- Fanless design
- Dual USB 2.0 ports
- Integrated Visu+ visualization software
- Ideal for use with PLCnext
- Configurable multifunction serial port

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1190421                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DR17                           |
| Product key                          | DRCADC                         |
| GTIN                                 | 4063151239053                  |
| Weight per piece (including packing) | 2,260 g                        |
| Weight per piece (excluding packing) | 2,100 g                        |
| Customs tariff number                | 84714100                       |
| Country of origin                    | TW                             |

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## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Product properties

|              |                |
|--------------|----------------|
| Product type | Operator panel |
| Weight       | 4.3 kg         |

#### Computer data

|                     |                             |
|---------------------|-----------------------------|
| Processor           | Arm® Cortex®-A9, 800 MHz    |
| Operating system    | Windows® Embedded Compact 7 |
| Data storage system | Flash eMMC, 8 GB            |
| Slots               | 1x microSD                  |

#### Display

|                       |                              |
|-----------------------|------------------------------|
| Display type          | 39.6 cm / 15.6"-TFT          |
| Screen resolution     | 1920 x 1080 Pixel(s) (HD)    |
| Touch technology      | projective-capacitive (PCAP) |
| Display lighting type | LED                          |
| Brightness            | 450 cd/m²                    |
| MTBF                  | 50000 h                      |
| Color spectrum        | 16.7 million colors          |
| Reading angle left    | 85.00 °                      |
| Reading angle right   | 85.00 °                      |
| Reading angle top     | 85.00 °                      |
| Reading angle bottom  | 85.00 °                      |

### Interfaces

|                     |                                      |
|---------------------|--------------------------------------|
| Interfaces          | 2x USB 2.0                           |
|                     | 1x COM (RS-232/422/485)              |
| Optional interfaces | Without optional interface           |
| Network             | 1x Ethernet (10/100/1000 Mbps), RJ45 |
| Bus system          | without bus system                   |

### System properties

|               |       |
|---------------|-------|
| User software | Visu+ |
|---------------|-------|

#### System requirements

|                |               |
|----------------|---------------|
| Runtime system | Visu+ Runtime |
|----------------|---------------|

### Electrical properties

|                         |                   |
|-------------------------|-------------------|
| Service life of battery | 5 years (typical) |
|-------------------------|-------------------|

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## Supply

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Supply voltage              | 24 V DC $\pm 20\%$                            |
| Supply voltage range        | 18 V ... 32 V                                 |
| Power supply unit           | 24 V DC $\pm 20\%$                            |
| Max. current consumption    | 1.81 A (max. system configuration at 24 V DC) |
| Typical current consumption | 1.27 A (max. system configuration at 24 V DC) |

## Real-time clock

|                |                      |
|----------------|----------------------|
| Realtime clock | Yes (battery-backed) |
|----------------|----------------------|

## Mounting

|               |                |
|---------------|----------------|
| Mounting type | Front mounting |
|---------------|----------------|

## Material specifications

|                      |                                    |
|----------------------|------------------------------------|
| Material front plate | Aluminum (natural anodized)        |
| Housing material     | Aluminum cast alloy, powder-coated |

## Connection data

|                                                                       |                                              |
|-----------------------------------------------------------------------|----------------------------------------------|
| Connection method                                                     | Screw connection                             |
| Conductor cross-section, rigid                                        | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross-section, flexible                                     | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross-section AWG                                           | 24 ... 12                                    |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Stripping length                                                      | 7 mm                                         |

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                |
|------------------------------------------|--------------------------------|
| Degree of protection                     | IP66 (front), IP20 (back)      |
| Ambient temperature (operation)          | 0 °C ... 50 °C                 |
| Ambient temperature (storage/transport)  | -20 °C ... 60 °C               |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 85 % (non-condensing)  |
| Vibration (operation)                    | 1g                             |

## Dimensions

### External dimensions

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| Width / Height / Depth | 398 mm / 273 mm / 51 mm (Dimensions of the front plate) |
|------------------------|---------------------------------------------------------|

### Installation dimensions

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| Width / Height / Installation depth | 388 mm / 263 mm / (Installation cutout) |
|-------------------------------------|-----------------------------------------|

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## Approvals

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**IECEE CB Scheme**

Approval ID: US-39088-UL



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27330201 |
| ECLASS-15.0 | 27330201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001412 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43211900 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |              |
|-----------------------------------------|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-15                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                      |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

### EF3.0 Climate Change

|         |                 |
|---------|-----------------|
| CO2e kg | 167.775 kg CO2e |
|---------|-----------------|

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