

# TP21AS/702000 S00001 - Touch panel



2401023

<https://www.phoenixcontact.com/us/products/2401023>

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Touch panel, 14.5 cm / 5.7"-TFT display (analog resistive (polyester)), 320 x 240 pixel(s) (QVGA), 65536 colors, Arm9™, 200 MHz, 2x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Windows® CE 5.0, TSvisRT, without bus system.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2401023       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DRCABB        |
| GTIN                                 | 4055626097015 |
| Weight per piece (including packing) | 680 g         |
| Weight per piece (excluding packing) | 680 g         |
| Country of origin                    | DE            |

## Technical data

### Product properties

|              |                |
|--------------|----------------|
| Product type | Operator panel |
|--------------|----------------|

#### Computer data

|                     |                  |
|---------------------|------------------|
| Processor           | Arm9™, 200 MHz   |
| Operating system    | Windows® CE 5.0  |
| RAM                 | 64 MB SDRAM      |
|                     | 512 KB SRAM      |
| Data storage system | NOR-Flash, 32 MB |

#### Display

|                       |                                 |
|-----------------------|---------------------------------|
| Display type          | 14.5 cm / 5.7"-TFT              |
| Screen resolution     | 320 x 240 Pixel(s) (QVGA)       |
| Touch technology      | analog resistive (polyester)    |
| Display lighting type | LED                             |
| Brightness            | 400 cd/m², typical (adjustable) |
| MTBF                  | 40000 h                         |
| Color spectrum        | 65536 colors                    |
| Reading angle left    | 75.00 °                         |
| Reading angle right   | 75.00 °                         |
| Reading angle top     | 60.00 °                         |
| Reading angle bottom  | 75.00 °                         |

### Interfaces

|                     |                                  |
|---------------------|----------------------------------|
| Interfaces          | 2x USB Host 2.0                  |
| Optional interfaces | none                             |
| Network             | 1 x Ethernet (10/100 Mbps), RJ45 |
| Bus system          | without bus system               |

### System properties

|               |         |
|---------------|---------|
| User software | TSvisRT |
|---------------|---------|

### Electrical properties

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

#### Supply

|                             |                  |
|-----------------------------|------------------|
| Power supply unit           | 24 V DC +/- 20 % |
| Typical current consumption | 0.4 A            |

#### Real-time clock

|                |     |
|----------------|-----|
| Realtime clock | Yes |
|----------------|-----|

### Mounting

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

## Material specifications

|                      |                             |
|----------------------|-----------------------------|
| Material front plate | Aluminum (natural anodized) |
| Housing material     | Steel sheet, zinc-plated    |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| Degree of protection                    | IP65 (front), IP20 (back)<br>NEMA 4X |
| Ambient temperature (operation)         | 0 °C ... 50 °C                       |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C                     |
| Altitude                                | 3000 m                               |
| Permissible humidity (operation)        | 20 % ... 85 %                        |
| Shock                                   | 15g, according to IEC 60068-2-27     |
| Vibration (operation)                   | 1g, according to EN 60068-2-6        |

## Dimensions

### External dimensions

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| Width / Height / Depth | 203 mm / 147 mm / 5 mm (Dimensions of the front plate) |
|------------------------|--------------------------------------------------------|

### Installation dimensions

|                                     |                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------|
| Width / Height / Installation depth | 195 mm / 139 mm / 66 mm (Mounting cutout, depth with bus if bus system present in the device) |
|-------------------------------------|-----------------------------------------------------------------------------------------------|

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43211904 |
|-------------|----------|

## Environmental product compliance

## EU RoHS

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Fulfills EU RoHS substance requirements | Yes                                             |
| Exemption                               | 6(a), 6(a)-I, 6(b), 6(b)-II, 6(c), 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) |
|-------------------------------------|----------------------|