

# TP21AM/762000 S00001 - Touch panel



2401020

<https://www.phoenixcontact.com/us/products/2401020>

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Touch panel, 14.5 cm / 5.7"-FSTN display (analog resistive (polyester)), 320 x 240 pixel(s) (QVGA), 5 grayscales, Arm9™, 200 MHz, 2x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Windows® CE 5.0, TSvisRT, INTERBUS 512 kbps.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2401020       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DRCABB        |
| GTIN                                 | 4055626097039 |
| Weight per piece (including packing) | 680 g         |
| Weight per piece (excluding packing) | 680 g         |
| Country of origin                    | DE            |

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## Technical data

### Product properties

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

### Computer data

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

### Display

|                       |                                |
|-----------------------|--------------------------------|
| Display type          | 14.5 cm / 5.7"-FSTN            |
| Screen resolution     | 320 x 240 Pixel(s) (QVGA)      |
| Touch technology      | analog resistive (polyester)   |
| Display lighting type | LED                            |
| Brightness            | 120 cd/m² typical (adjustable) |
| MTBF                  | 40000 h                        |
| Color spectrum        | 5 grayscales                   |
| Reading angle left    | 40.00 °                        |
| Reading angle right   | 40.00 °                        |
| Reading angle top     | 45.00 °                        |
| Reading angle bottom  | 45.00 °                        |

### Interfaces

|                     |                                  |
|---------------------|----------------------------------|
| Interfaces          | 2x USB Host 2.0                  |
| Optional interfaces | none                             |
| Network             | 1 x Ethernet (10/100 Mbps), RJ45 |
| Bus system          | INTERBUS 512 kbps                |

### 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 | 0.25 A           |

### Real-time clock

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

### Mounting

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

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## 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 |
|-------------|----------|

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## 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) |
|-------------------------------------|----------------------|

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