

# TP090STW/100630003 S00069 - Touch panel



2400777

<https://www.phoenixcontact.com/us/products/2400777>

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Touch panel, 22.9 cm / 9"-TFT display (analog resistive (polyester)), 800 x 480 pixel(s) (WVGA), 16.7 million colors, Arm® Cortex®-A8, 800 MHz, 2x USB Host 2.0, 1x COM (RS-232), 1x COM (RS-422/485), 1 x Ethernet (10/100 Mbps), RJ45, Windows® Embedded Compact 7, Open platform, DualCAN.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2400777       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DRCABA        |
| GTIN                                 | 4055626109985 |
| Weight per piece (including packing) | 1,300 g       |
| Weight per piece (excluding packing) | 1,300 g       |
| Country of origin                    | DE            |

## Technical data

### Product properties

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

### Computer data

|                     |                             |
|---------------------|-----------------------------|
| Processor           | Arm® Cortex®-A8, 800 MHz    |
| Operating system    | Windows® Embedded Compact 7 |
| RAM                 | 512 MB LPDDR SDRAM          |
| Data storage system | NAND-Flash, 256 MB          |
| Slots               | 1x SD                       |

### Display

|                       |  |
|-----------------------|--|
| Display type          | 22.9 cm / 9"-TFT                           |
| Screen resolution     | 800 x 480 Pixel(s) (WVGA)                  |
| Touch technology      | analog resistive (polyester)               |
| Display lighting type | LED  |
| Brightness            | 640 cd/m <sup>2</sup> typical (adjustable) |
| MTBF                  | 70000 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 Host 2.0                  |
|            | 1x COM (RS-232)                  |
|            | 1x COM (RS-422/485)              |
| Network    | 1 x Ethernet (10/100 Mbps), RJ45 |
| Bus system | DualCAN                          |

### System properties

|               |               |
|---------------|---------------|
| User software | Open platform |
|---------------|---------------|

### Electrical properties

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

### Supply

|                             |       |
|-----------------------------|-------|
| Typical current consumption | 0.7 A |
|-----------------------------|-------|

### Real-time clock

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

### Supply

|                   |               |
|-------------------|---------------|
| Power supply unit | 24 V DC ±20 % |
|-------------------|---------------|

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## 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)        |
|   | NEMA 4X                          |
| Ambient temperature (operation)         | 0 °C ... 50 °C                   |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C                 |
| 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 | 260 mm / 172 mm / 5 mm (Dimensions of the front plate) |
|------------------------|--|

### Installation dimensions

|                                     |   |
|-------------------------------------|---|
| Width / Height / Installation depth | 252 mm / 164 mm / 54 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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