

# TPG070SGW/200630023 S00071 - Touch panel



2401281

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Rugged-Touch panel, 17.8 cm / 7"-TFT display (Analog resistive (GFG)), 800 x 480 pixel(s) (WVGA), 65536 colors, Arm® Cortex®-A8, 1000 MHz, 2x USB Host 2.0, 1x COM (RS-232), 1x COM (RS-232/485), 1 x Ethernet (10/100 Mbps), RJ45, Windows® Embedded Compact 7, TSvisiT, DualCAN.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2401281       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DRCACE        |
| GTIN                                 | 4055626109763 |
| Weight per piece (including packing) | 1,100 g       |
| Weight per piece (excluding packing) | 1,100 g       |
| Country of origin                    | DE            |

## Technical data

### Product properties

|              |                |
|--------------|----------------|
| Product type | Operator panel |
| Application  | Rugged         |

### Computer data

|                     |                             |
|---------------------|-----------------------------|
| Processor           | Arm® Cortex®-A8, 1000 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          | 17.8 cm / 7"-TFT                |
| Screen resolution     | 800 x 480 Pixel(s) (WVGA)       |
| Touch technology      | Analog resistive (GFG)          |
| Display lighting type | LED                             |
| Brightness            | 400 cd/m², typical (adjustable) |
| MTBF                  | 50000 h                         |
| Color spectrum        | 65536 colors                    |
| Reading angle left    | 70.00 °                         |
| Reading angle right   | 70.00 °                         |
| Reading angle top     | 60.00 °                         |
| Reading angle bottom  | 60.00 °                         |

### Interfaces

|            |                                  |
|------------|----------------------------------|
| Interfaces | 2x USB Host 2.0                  |
|            | 1x COM (RS-232)                  |
|            | 1x COM (RS-232/485)              |
| Network    | 1 x Ethernet (10/100 Mbps), RJ45 |
| Bus system | DualCAN                          |

### System properties

|               |         |
|---------------|---------|
| User software | TSvisIT |
|---------------|---------|

### Electrical properties

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

### Supply

|                             |       |
|-----------------------------|-------|
| Typical current consumption | 0.5 A |
|-----------------------------|-------|

### Real-time clock

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

### Supply

|                   |                    |
|-------------------|--------------------|
| Power supply unit | 24 V DC $\pm$ 20 % |
|-------------------|--------------------|

## Mounting

|               |             |
|---------------|-------------|
| Mounting type | Bolt fixing |
|---------------|-------------|

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| Degree of protection                    | IP67 (front), IP20 (back)<br>NEMA 4X                |
| Ambient temperature (operation)         | -32 °C ... 70 °C                                    |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                                    |
| Altitude                                | 3000 m                                              |
| Permissible humidity (operation)        | 5 % ... 95 % (Front)<br>20 % ... 85 % (On the rear) |
| Shock                                   | 15g, according to IEC 60068-2-27                    |
| Vibration (operation)                   | 1g, according to EN 60068-2-6                       |

## Dimensions

### External dimensions

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| Width / Height / Depth | 234 mm / 174 mm / 5 mm (Dimensions of the front plate) |
|------------------------|--------------------------------------------------------|

### Installation dimensions

|                                     |                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------|
| Width / Height / Installation depth | 200 mm / 140 mm / 77 mm (Mounting cutout, depth with bus if bus system present in the device) |
|-------------------------------------|-----------------------------------------------------------------------------------------------|