

# TPG121SGS/200110021 S00068 - Touch panel



2401636

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Rugged-Touch panel, 30.7 cm / 12.1"-TFT display (Analog resistive (GFG)), 800 x 600 pixel(s) (SVGA), 16.7 million colors, Arm® Cortex®-A8, 1000 MHz, 2x USB 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Windows® Embedded Compact 7, Movicon™, without bus system.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2401636       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DRCACC        |
| GTIN                                 | 4055626322933 |
| Weight per piece (including packing) | 2.75 g        |
| Weight per piece (excluding packing) | 2.75 g        |
| Country of origin                    | DE            |

## Technical data

### Notes

#### Utilization restriction

|          |                                                                           |
|----------|---------------------------------------------------------------------------|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---------------------------------------------------------------------------|

### 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<br>1 MB SRAM     |
| Data storage system | NAND-Flash, 1 GB                    |
| Slots               | 1x SD                               |
| Optional keys       | without                             |
| Extras              | Integrated acoustic signal (buzzer) |

#### Display

|                       |                                |
|-----------------------|--------------------------------|
| Display type          | 30.7 cm / 12.1"-TFT            |
| Screen resolution     | 800 x 600 Pixel(s) (SVGA)      |
| Touch technology      | Analog resistive (GFG)         |
| Display lighting type | LED                            |
| Brightness            | 360 cd/m² typical (adjustable) |
| MTBF                  | 50000 h                        |
| Color spectrum        | 16.7 million colors            |
| Reading angle left    | 80.00 °                        |
| Reading angle right   | 80.00 °                        |
| Reading angle top     | 65.00 °                        |
| Reading angle bottom  | 75.00 °                        |

### Interfaces

|            |                                  |
|------------|----------------------------------|
| Interfaces | 2x USB 2.0                       |
| Network    | 1 x Ethernet (10/100 Mbps), RJ45 |
| Bus system | without bus system               |

### System properties

|               |          |
|---------------|----------|
| User software | Movicon™ |
|---------------|----------|

### Electrical properties

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

## Supply

|                          |                    |
|--------------------------|--------------------|
| Power supply unit        | 24 V DC $\pm$ 20 % |
| Max. current consumption | 0.5 A              |

## Real-time clock

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

## 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)        |
|                                         | NEMA 4X                          |
| Ambient temperature (operation)         | -30 °C ... 70 °C                 |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                 |
| Altitude                                | 3000 m                           |
| Permissible humidity (operation)        | 5 % ... 95 % (Front)             |
|                                         | 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 | 359 mm / 280 mm / 5 mm (Dimensions of the front plate) |
|------------------------|--------------------------------------------------------|

## Installation dimensions

|                                     |                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------|
| Width / Height / Installation depth | 323 mm / 244 mm / 58 mm (Mounting cutout, depth with bus if bus system present in the device) |
|-------------------------------------|-----------------------------------------------------------------------------------------------|

Environmental product compliance

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.)    | No substance above 0.1 wt%                                                                                                                                                                                                        |

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