

# TP104AT/722000 S00003 - Touch panel



2401616

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Touch panel, 26.4 cm / 10.4"-TFT display (analog resistive (polyester)), 640 x 480 pixel(s) (VGA), 65536 colors, Arm9™, 200 MHz, 2x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Windows® CE 5.0, TSvisRT, PROFIBUS DP.

Similar figure

## Commercial data

Item number	2401616
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRCABB
GTIN	4055626289557
Weight per piece (including packing)	2,379 g
Weight per piece (excluding packing)	2,379 g
Country of origin	DE

## Technical data

### Product properties

Product type	Operator panel
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### 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	26.4 cm / 10.4"-TFT
Screen resolution	640 x 480 Pixel(s) (VGA)
Touch technology	analog resistive (polyester)
Display lighting type	LED
Brightness	360 cd/m <sup>2</sup> typical (adjustable)
MTBF	50000 h
Color spectrum	65536 colors
Reading angle left	80.00 °
Reading angle right	80.00 °
Reading angle top	65.00 °
Reading angle bottom	80.00 °

### Interfaces

Interfaces	2x USB Host 2.0
Optional interfaces	none
Network	1 x Ethernet (10/100 Mbps), RJ45
Bus system	PROFIBUS DP

### System properties

User software	TSvisRT
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### Electrical properties

Service life of battery	5 years (typical)
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### Supply

Power supply unit	24 V DC ±20 %
Typical current consumption	0.6 A

### Real-time clock

Realtime clock	Yes
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### 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) 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	328 mm / 249 mm / 5 mm (Dimensions of the front plate)
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### Installation dimensions

Width / Height / Installation depth	303 mm / 222 mm / 67 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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