

# TP090BTW/A00390009 S00131 - Touch panel



2401649

<https://www.phoenixcontact.com/us/products/2401649>

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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, Intel® Atom™ E3815 1.46 GHz, 4x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Windows® Embedded Compact 7, Open platform, without bus system.

## Commercial data

Item number	2401649
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRCABA
GTIN	4055626363219
Weight per piece (including packing)	1.4 kg
Weight per piece (excluding packing)	1.4 kg
Country of origin	DE

## Technical data

### Product properties

Product type	Operator panel
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### Computer data

Processor	Intel® Atom™ E3815 1.46 GHz
Operating system	Windows® Embedded Compact 7
RAM	2 GB DDR3
Data storage system	Flash eMMC, 4 GB
Slots	1x SD
Extras	Integrated acoustic signal (buzzer)

### 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	800 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	4x USB Host 2.0
Network	1 x Ethernet (10/100 Mbps), RJ45
Bus system	without bus system

### System properties

User software	Open platform
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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	0.8 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	260 mm / 172 mm / 5 mm (Dimensions of the front plate)
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### Installation dimensions

Width / Height / Installation depth	252 mm / 164 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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