TP21AM/782000 S00001 - Touch panel

2401022

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Touch panel; 14.5 cm / 5.7"-FSTN display (analog resistive (polyester)); 320 x 240 pixel(s) (QVGA); 5 grayscales; Processor: Arm9™, 200 MHz; Interfaces: 2x USB Host 2.0, 1x COM (RS-232/485), 1 x Ethernet (10/100 Mbps), RJ45; Operating system: Windows® CE 5.0; Software: TSvisRT; without bus system

Commercial data

Item number	2401022
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRCABB
GTIN	4055626097022
Weight per piece (including packing)	680 g
Weight per piece (excluding packing)	680 g
Country of origin	DE

Technical data

Product properties

Product type	Operator panel

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	14.5 cm / 5.7"-FSTN
Screen resolution	320 x 240 Pixel(s) (QVGA)
Touch technology	analog resistive (polyester)
Display lighting type	LED
Brightness	120 cd/m² typical (adjustable)
MTBF	40000 h
Color spectrum	5 grayscales
Reading angle left	40.00 °
Reading angle right	40.00 °
Reading angle top	45.00 °
Reading angle bottom	45.00 °

Interfaces

Interfaces	2x USB Host 2.0
	1x COM (RS-232/485)
Optional interfaces	none
Network	1 x Ethernet (10/100 Mbps), RJ45
Bus system	without bus system

System properties

User software	TSvisRT

Electrical properties

Service life of battery	5 years (typical)

Supply

Power supply unit	24 V DC +/- 20 %
Typical current consumption	0.25 A

Real-time clock

Real-time clock	Yes

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
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	203 mm / 147 mm / 5 mm (Dimensions of the front plate)

Installation dimensions

Width / Height / Installation depth	195 mm / 139 mm / 66 mm (Mounting cutout, depth with bus if bus system present in the device)

Classifications

UNSPSC

UNSPSC 21.0	43211904

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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