

# Touch panel - TP 04M - 2985152

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Touch panel with 9.7 cm/3.8" FSTN-display (analog resistive (polyester)), 320 x 240 pixel(s) (QVGA), 5 grayscales, Arm9™, 200 MHz, 2x USB host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Windows CE 5.0 and user software: Visu+ / AX OPC Server. (bus system: without)

## Your advantages

- ✓ Short startup time
- ✓ Easy installation, low installation depth, and compact design
- ✓ Display available in sizes from 8.9 cm (3.8") to 38.1 cm (15")
- ✓ Visu+ RT and AX OPC server integrated as standard in all devices
- ✓ Energy efficient due to LED backlighting



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 117241
GTIN	4046356117241

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Outer dimensions: width, height, depth	130 mm x 96 mm x 5 mm (Dimensions of the front plate)
Installation dimensions: width, height, depth	122 mm x 88 mm x 33 mm

### Display

Display type	9.7 cm/3.8" FSTN
Screen resolution	320 x 240 Pixel(s) (QVGA)
Touch technology	analog resistive (polyester)
Backlighting	CCFL
Colors	5 grayscales

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## Technical data

### Computer data

Processor	Arm9™, 200 MHz
Operating system	Windows® CE 5.0
User software	Visu+
	AX OPC Server
RAM	64 MB SDRAM
	512 KB SRAM
Mass storage	Flash, 32 MB
Network	1 x Ethernet (10/100 Mbps), RJ45
Interfaces	2x USB Host 2.0
Bus system	without

### General

Material front plate	Aluminum (natural anodized)
Housing material	Steel sheet, zinc-plated
Mounting type	Front installation

### 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
Permissible humidity (operation)	20 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Vibration (operation)	DIN EN 60068-2-6
Shock	DIN EN 60068-2-27

### Device supply

Typical current consumption	0.3 A
Power supply unit	24 V DC ±20 %

### Standards and Regulations

Shock	DIN EN 60068-2-27
Vibration (operation)	DIN EN 60068-2-6

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 15;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

eCl@ss

eCl@ss 10.0.1	27330201
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## Classifications

### eCl@ss

eCl@ss 4.0	27330200
eCl@ss 4.1	27330200
eCl@ss 5.0	27330200
eCl@ss 5.1	27330200
eCl@ss 6.0	27242300
eCl@ss 7.0	27242302
eCl@ss 8.0	27242302
eCl@ss 9.0	27330201

### ETIM

ETIM 2.0	EC001426
ETIM 3.0	EC001426
ETIM 4.0	EC001412
ETIM 5.0	EC001412
ETIM 6.0	EC001412
ETIM 7.0	EC001412

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43211903
UNSPSC 13.2	43211904
UNSPSC 18.0	43211904
UNSPSC 19.0	43211904
UNSPSC 20.0	43211904
UNSPSC 21.0	43211904

## Approvals

### Approvals

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#### Approvals

DNV GL / BV / ABS / RINA / UL Listed / cUL Listed / EAC / LR / cULus Listed

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#### Ex Approvals

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### Approval details

# Touch panel - TP 04M - 2985152

## Approvals

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAA000009G
BV		<a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a>	41477/B0 BV
ABS		<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	16-HG1569098-PDA
RINA		<a href="http://www.rina.org/en">http://www.rina.org/en</a>	ELE052317XG
UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 205795
cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 205795
EAC			RU *- DE.A*30.B.00238
LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	14/20017
cULus Listed			

## Accessories

Accessories

Battery module

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## Accessories

Battery / accumulator - HMI BATTERY - 2701383

Lithium battery



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## Mounting material

Mounting material - HMI SCB MOUNTING KIT 4 - 2701384



HMI mounting kit for installation on a front plate. The mounting kit includes 4 x mounting brackets, 4 x screw threads, and a hexagonal wrench.

Mounting material - HMI SCB MOUNTING KIT 6 - 2701385



HMI mounting kit for installation on a front plate. The mounting kit includes 6 x mounting brackets, 6 x screw threads, and a hexagonal wrench.

Mounting material - HMI SCB MOUNTING KIT 8 - 2701387



HMI mounting kit for installation on a front plate. The mounting kit includes 8 x mounting brackets, 8 x screw threads, and a hexagonal wrench.

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## Operating stylus

Touch pen - TOUCH PEN - 2701379



Touch pen for analog-resistive HMIs, silver coated. Delivery includes self-adhesive pen holder.

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## Storage medium

## Touch panel - TP 04M - 2985152

### Accessories

USB memory stick - USB FLASH DRIVE - 2402809



USB memory stick, 8 GB

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