

HMI Nautic

Touch screen panel

 SÜTRON

HMI hardware

- Powerful product family with nautical certification
- All relevant certification societies - ABS, BV, DNV, GL, LR
- Certified to environmental category C, EMC1
- Full graphics displays for a brilliant display and wide reading angles
- Display brightness dimmable via 2 keys for all light conditions during day and night
- Built-in beeper
- Additional potential-free relay contact for connection of an external actor



Technical Data	General
Touch screen	Analog resistive
Operating system	Windows CE 5.0
Interfaces	2x USB Host Full Speed, external alarm indication with potential-free relay output (max. 24 V / 2 A)
Network	10/100 MBit Ethernet, RJ45 socket
Supply voltage	24 V DC, 18 V - 30 V, with reverse voltage protection
Display brightness	Dimmable from 3 cd/m ² - 100 %
Contrast adjustment	Temperature compensated
Degrees of protection	Front: IP65 Rear: IP20
Temperature range	Operation: 0 °C bis 50 °C Storage: -25 °C bis 70 °C
Relative air humidity for operation and storage	20% to 85% no dew condensation (non-condensing)
Front panel	Aluminium, brushed, black anodized
Housing	Zinc-coated sheet steel
Certification	CE, ABS, BV, DNV, GL, LR
Field of use	Certified to environmental category C, EMC1
Application	Shipping industry and wind power installations, offshore installations, railway technology

Technical Data	TPM11AM	TPM21AM, AS
Processor	RISC CPU, 200 MHz, real-time clock	RISC CPU, 200 MHz, real-time clock
Display	9,65 cm (3,8") FSTN (Mono)	14,48 cm (5,7") FSTN (Mono) / CSTN (Color)
Colors	5 Gray Shades	5 Gray Shades / 256
Resolution (W x H in pixels)	320 x 240	320 x 240
Reading angle	80°	90° / 60°
Half-life backlighting	30.000 h	40.000 h
Max. brightness (in cd/m ²)	90	120 / 160
Front panel dimensions (W x H x D in mm)	155 x 96 x 5	203 x 165 x 5
Mounting cut-out (W x H in mm)	147 x 88	195 x 157
Current consumption	0,25 A	0,25 A / 0,4 A
Connected load	6 W	6 W / 9,6 W
Weight (in g)	500	1000

Technical Data	TPM70AT	TPM104XiT
Processor	RISC CPU, 200 MHz, real-time clock	RISC CPU, 806 MHz, real-time clock
Display	17,78 cm (7") TFT	26,42 cm (10,4") TFT
Colors	65536	65536
Resolution (W x H in pixels)	800 x 480	640 x 480
Reading angle	100°	140°
Half-life backlighting	50.000 h	50.000 h
Max. brightness (in cd/m ²)	400	280
Front panel dimensions (W x H x D in mm)	203 x 165 x 5	328 x 265 x 5
Mounting cut-out (W x H in mm)	195 x 157	303 x 238
Current consumption	0,5 A	0,7 A
Connected load	12 W	16,8 W
Weight (in g)	1000	2200

Technical Data	TPM121XiT	TPM151XiT
Processor	RISC CPU, 806 MHz, real-time clock	RISC CPU, 806 MHz, real-time clock
Display	30,73 cm (12,1") TFT	38,35 cm (15,1") TFT
Colors	65536	65536
Resolution (W x H in pixels)	800 x 600	1024 x 768
Reading angle	140°	160°
Half-life backlighting	50.000 h	50.000 h
Max. brightness (in cd/m ²)	300	480
Front panel dimensions (W x H x D in mm)	340 x 285 x 5	400 x 338 x 5
Mounting cut-out (W x H in mm)	315 x 259	373 x 312
Current consumption	0,7 A	1,0 A
Connected load	16,8 W	24 W
Weight (in g)	2500	3600

Impressive Functionality

The nautic touch screen panels allow operating and monitoring of all applications on board - from cargo, ballast, energy distribution, water, heating, air conditioning, ventilation up to the number of revolutions per minute and oil pressure including alarm and monitoring functions.

Long Service Life and Fail-Safe Design

The newest generation operating panels guarantee long life and fail safety through high-quality production, including the entire process from the IEC standard 61131 compliant product development to DIN ISO 9001 compliant manufacturing.

Easy Configuration

With the TSwIn .net programming software, all programmed applications can be easily implemented.

Customer-specific Adjustments

On request, the front, built-in components, interfaces, display sizes can be tailored to the customer's demands. Certifications are also available.

Certificates

ABS - American Bureau of Shipping
 BV - Bureau Veritas
 DNV - Det Norske Veritas
 GL - Germanischer Lloyd
 LR - Lloyd's Register

Environmental Category C, EMC1

Suited for applications with increased heat buildup, e.g. when devices are installed in consoles and enclosures. Suited for the bridge.

SÜTRON electronic GmbH
 Kurze Str. 29
 70794 Filderstadt
 Tel. 0711 / 77098-89
 Fax 0711 / 77098-960
 www.suetron.de
 info@suetron.de