

Display NORISYS 4 VMP70



Supply voltage UB	18 ... 31.2 VDC; galvanically isolated
Display	17.78 cm (7") TFT, WVGA 800 x 480 Pixel, 64k colours
Backlight	LED technology; life time backlight 40.000 h typical
Brightness	250 cd/m ²
Brilliance	300:1
Operating temperature	0 ... +55 °C
Connections	2 x CANbus, 1 x EIA-232, 2 x USB, 2 x Ethernet, 1 x CANbus/EIA-232
Protection class	IP56 front; IP20 backside
Power consumption	Max. 11 W



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The NORISYS 4 VMP70 is a 7" (17.78 cm) visualisation master panel based on LED technology with a resistive touchscreen. Equipped with a 400 MHz 32 Bit ARM processor, an internal 64 MB DRAM and a 64 MB flash memory, it is ideally suitable for the graphical visualisation of automation processes, e. g. with CODESYS. The necessary data can be easily updated via the integrated SD card slot or USB port.

The display operates with the Windows® CE 5.0 platform and due to its class approvals it is especially used in shipbuilding applications, e. g. in the NORISTAR remote control system, the NORIMOS integrated alarm, monitoring and control system (IAMCS) or in any other marine automation applications.

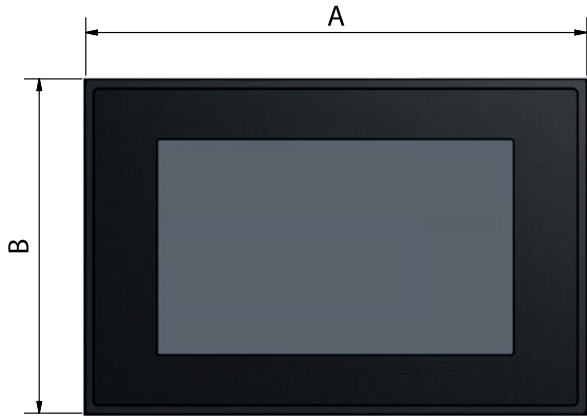
Interfaces

The NORISYS 4 VMP70 is equipped with the following interfaces for interconnection: 2 CANbus, 2 Ethernet, 1 EIA-232, 1 USB-A (Host), 1 USB-B

Specific features

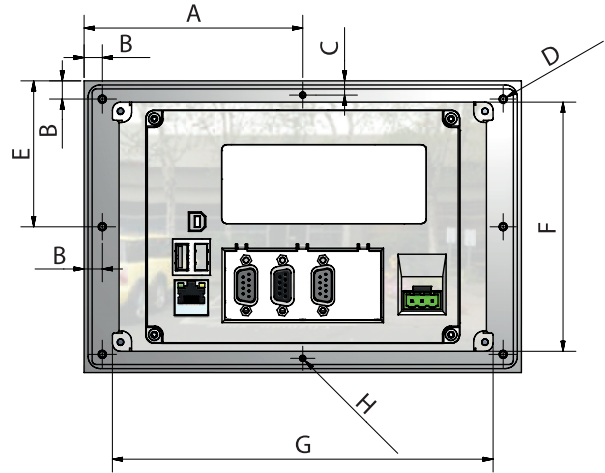
- Operating system Windows CE 5.0; can optionally be used with CODESYS
- Robust technology for harsh environments up to 15 g (shock)
- Low power consumption
- Easy to operate via resistive touchscreen
- With integrated SD card slot
- Certified for shipbuilding industry and offshore applications by BV, DNV, GL, LR

Dimensions, connections and drawings



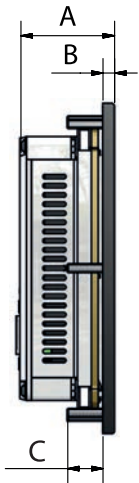
Front view

- A) 216 mm
- B) 144 mm



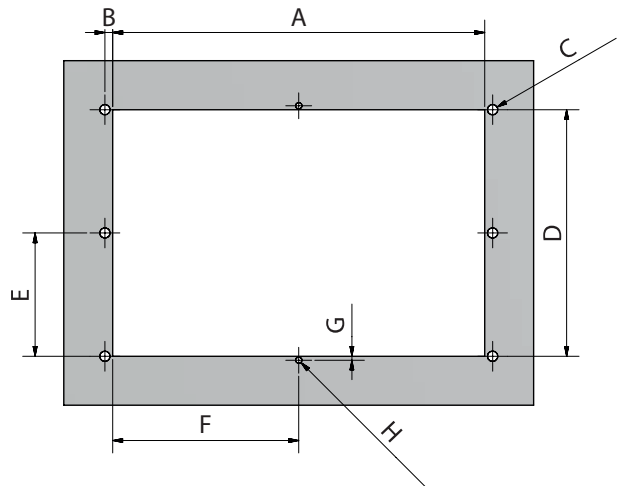
Backside view

- A) 108 mm
- B) 9 mm
- C) 7 mm
- D) Ø 4 mm
- E) 72 mm
- F) 123 mm
- G) 188 mm
- H) Ø 3 mm



Side view

- A) 41 mm
- B) 5 mm
- C) 15.5 mm



Mounting dimensions

- A) 190 mm
- B) 4 mm
- C) Ø 5.2 mm
- D) 126 mm
- E) 63 mm
- F) 95 mm
- G) 2 mm
- H) Ø 3.2 mm

Technical data

Electrical connection	
Supply voltage UB	18 ... 31.2 VDC; galvanically isolated
Nominal voltage UNOM	24 VDC
Power consumption	Max. 11 W
Reverse voltage protection	Yes

Environmental influences	
Operating temperature	0 ... +55 °C
Storage temperature	-20 ... +60 °C
Relative humidity	IEC 60068-2-30, 10...95 %, non-condensing
Vibration resistance	DIN IEC 60068-2-6 Fc, ±1.0 mm @ 2...13.2 Hz, ±0.7 g @ 13.2...100 Hz
Shock resistance	IEC 60068-2-27, 15 g / 11 ms
Protection class	IP56 front; IP20 backside
Interference emission	According to IEC61000-6-4
Interference immunity	According to IEC61000-6-2

Mechanical quantities	
Mounting position	Any
Mounting	Threaded bolts; 4 x M4, 4 x M3
Enclosure material	AlMg3 front, galvanized sheet steel & PC-GF backside
Dimensions CPU (WxHxD)	216 x 192 x 80 mm
Panel cut out (WxH)	190 x 126 mm
Weight	1.2 kg

Connections	
Connection - Ethernet	2 x, RJ45/8P8C, 1000Base-TX/10Base-T, Protocol: TCP/IP
Connections - CANbus	2 x, D-SUB 9 pol., galvanically isolated
Connections - EIA-232	1 x, D-SUB 9 pol.
Connections - USB	1 x USB 2.0 Host, 1 x USB 2.0 Device
Connection - Supply voltage	1 x, screw-type terminals, cable 1.5 mm ²
Display	17.78 cm (7") TFT, WVGA 800 x 480 Pixel, 64k colours
Brightness	250 cd/m ²
Brilliance	300:1
Backlight	LED technology; life time backlight 40.000 h typical
Touchscreen	Resistive
Processor	ARM, 32 Bit, 400 MHz
Memory intern	64 MB DRAM, 64 MB Flash, 125 kByte NVRAM
Memory Slot	SD Card (Std. 1.00)
Operating System	Windows CE 5.0
Options	Soft PLC (CODESYS 2.3.x, CODESYS 3.5.x) Industrial visualisation with Anti-Aliasing (Galileo)
Further standards	EN 61131-2, EN 61131-3
Approvals	CE, BV, DNV, GL, LR (C, EMC1)