

EVOLUTION V5

HARDWARE CATALOGUE

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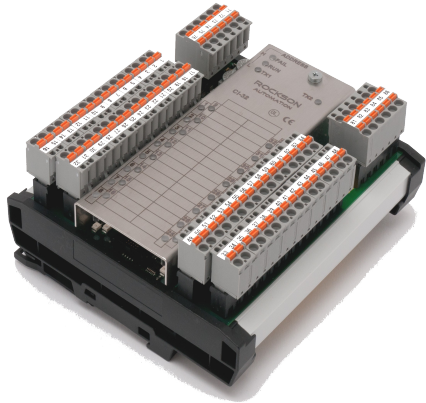
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Internal Hardware

M001 CI-32 32 Channel Contact Input Module



Features

- Space saving and cost-effective solution
- 32 two-wire inputs for dry contacts
- Detachable terminal blocks per channel
- Complete: No distribution strips required
- Built-in isolated contact supply
- Built-in earth fault monitor
- Easy bundling of several contacts to one common return wire
- Pulse counting and frequency measurement
- Redundant power supply inputs
- Redundant isolated field buses
- Easy replacing: Just set address and go

Specifications

Physical

Size W x H x D	128 x 140 x 65 mm
Mounting	35 mm DIN rail
Protection	IP20
Weight	411 g

Power supply

Supply voltage range	18 – 32 V DC
Power consumption	2 W

Contact inputs

Open circuit voltage	3.3 V
Measuring current	1.5 mA
Maximum resistance for „closed“ contact	500 Ohms or 100 Ohms plus 1 diode drop
Minimum resistance for „open“ contact	4.000 Ohms
Minimum pulse with	500 µs
Maximum frequency	1.000 Hz @ 50% duty cycle

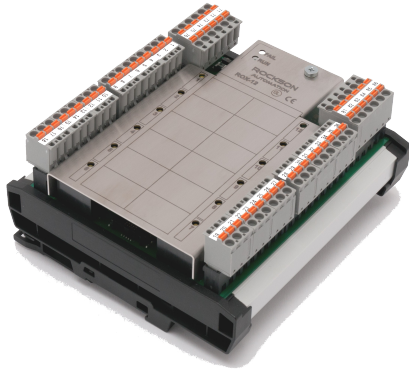
Field buses

Electrical	RS485
Protocol	Modbus RTU

Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3, EN61000-4-3 (RS), level 3, EN61000-4-4 (EFT), level 3, EN61000-4-5 (Surge), level 2, EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M002 ROX-12 12 Channel Relay Output Extender Module



Features

- Cost-effective extender to Input Modules CI32 and MI8
- 12 single-pole double-throw contacts
- Heavy-duty contacts with large safety margin
- Detachable terminal blocks per channel
- Redundant power supply inputs
- Easy replacing

Specifications

Physical

Size W x H x D	128 x 140 x 65 mm
Mounting	35 mm DIN rail
Protection	IP20 Front/Rear panel seat
Weight	453 g

Power supply

Supply voltage range	18 – 32 V DC
Power consumption	8 W

relay contact

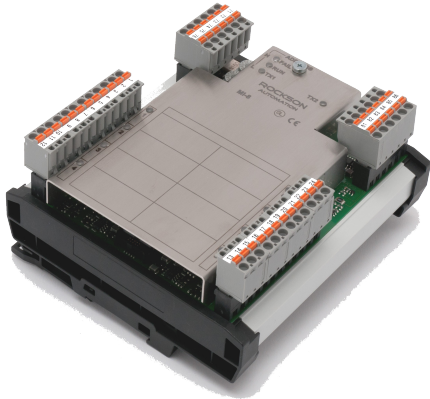
Contact form	SPDT, Form C
Contact rating	32 V / 2 A

Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M003 MI-8

8 Channel Mixed Input Module



Features

Super flexible solution
8 three-wire inputs for most signal types:
4 – 20 mA
RTD (Pt100)
Thermocouple
Potentiometer
0 – 10 V
NPN and PNP initiators
Contact with break and short monitoring
Detachable terminal blocks per channel
Complete: No distribution strips required
Built-in isolated sensor supply
Built-in earth fault monitor
Redundant power supply inputs
Redundant isolated field buses
Easy replacing: Just set address and go!

Specifications

Physical

Size W x H x D	128 x 140 x 65 mm
Mounting	35 mm DIN rail
Front / Rear panel seal	IP20
Weight	365 g

Power supply

Supply voltage range	18 – 32 V DC
Power consumption	10 W

signal inputs

Sensor supply voltage	24 V
Sensor supply current	35 mA per Channel
RTD measuring current	1.5 mA
4 – 20 mA input load	100 Ohms

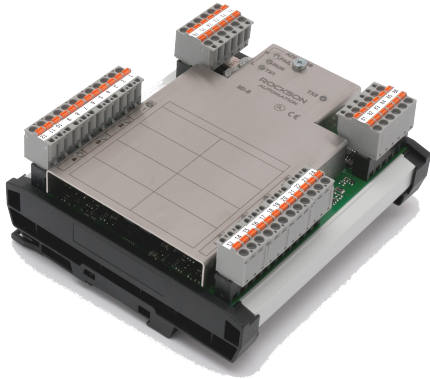
field buses

Electrical	RS485
Protocol	Modbus RTU

Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M018 MO-8 8 Channel Mixed Output Module



Features

8 configurable outputs for:

0 – 20 mA or

0 – 10 V

Detachable terminal blocks per channel

Complete: No distribution strips required

Built-in output error monitor

Redundant power supply inputs

Redundant isolated field buses

Easy replacing: Just set address and go!

Specifications

Physical

Size W x H x D	128 x 140 x 65 mm
Mounting	35 mm DIN rail
Protection	IP20
Weight	365 g

Power supply

Supply voltage range	18 – 32 V DC
Power consumption	8 W

Field buses

Electrical	RS485
Protocol	Modbus RTU

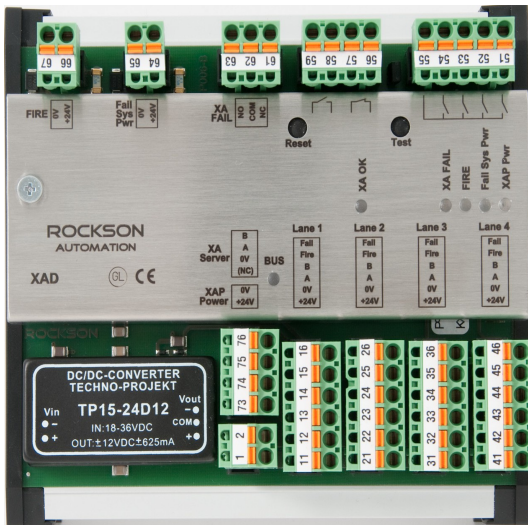
signal outputs

Current outputs:	
Output range	0 – 20 mA
Maximum load for 20 mA	500 Ohms
Voltage Outputs:	
Output range	0 – 10 V
Minimum load resistance	1 kOhms

Agency Approvals:

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M004 XAD eXtension Alarm Distribution Module



Features

- Fail indicator system for extension alarm system
- Distributor for XAP wiring
- Alarm and status outputs to main alarm system

Specifications

Physical

Size W x H x D	140 x 128 x 65 mm
Mounting	35 mm DIN rail
Protection	IP20
Weight	415 g

Power supply

Supply voltage range	18 – 32 V DC
Power consumption	2 W

Indicators

LED	XAP power, Fail sys power, Fire, XA Fail, XA ok, Bus activity
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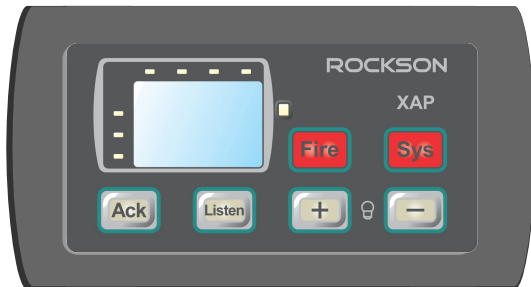
field buses

passive distributor for 4 lines of XAP buses

Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M005 XAP eXtension Alarm Panel (M005-1)



Features

- Cost-efficient client for XA server
- Graphic display with multi language status description
- Alarm group and status LEDs
- Acoustic acknowledge button, lamp test and dimming
- Duty function, listen function for duty monitoring
- Fire and system fail indication
- Flush or wall mounting installation
- Connector for bedroom buzzer

Specifications

Physical

Size W x H x D	144 x 72 x 40 mm
Mounting	Flush or wall mounting installation
Protection	IP20
Weight	160 g

Power supply

Supply voltage range	18 – 32 V DC
Power consumption	8 W

Indicators

LEDs	Alarm group and measuring point status
Graphical Display	Multilanguage status description
Audible Alarm	≥ 75 dB (A) / 1 m

field buses

Electrical	RS485
Protocol	Modbus RTU

Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M713 XAPX-7 eXtension Alarm Panel, premium version



Features

- Acoustical alarm
- Acknowledge of acoustical alarm
- Engineer call alarm
- Indication of alarm groups
- Indication of fire alarm
- Indication of system failure
- Indication of duty engineer selection
- Display of alarm lists
- Sleep mode
- Listen mode
- Contact for additional buzzer

Specifications

(Type AGI407)

Physical

Size W x H	269 x 190 mm
Mounting depth	100 mm
Front / Rear panel seal	IP20
Weight	1.6 kg
Panel cut-out	239 x 162 mm

Power supply

Power supply	24 VDC (18-32 VDC)
Current consumption	0.7 A at 24 V DC (max.)

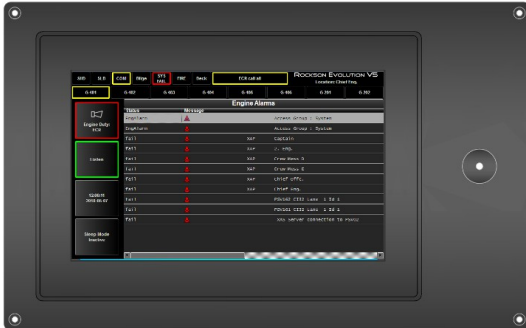
Main features

Display	7" TFT, 24bit colours
Resolution	800 x 480
Brightness	500 cd/m ²
Touchscreen	Projective capacitive

Ambient temperature	0 °C to +55 °C (vertical installation)
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Maritime Specifications	DNV GL, LR
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M714 XAPX-10 eXtension Alarm Panel, premium version



Features

- Acoustical alarm
- Acknowledge of acoustical alarm
- Engineer call alarm
- Indication of alarm groups
- Indication of fire alarm
- Indication of system failure
- Indication of duty engineer selection
- Display of alarm lists
- Sleep mode
- Listen mode
- Contact for additional buzzer

Specifications (Type AGI410)

Physical

Size W x H	385 x 240 mm
Mounting depth	100 mm
Front / Rear panel seal	IP20
Weight	1.9 kg
Panel cut-out	355 x 212 mm

Power supply

Power supply	24 VDC (18-32 VDC)
Current consumption	1 A at 24 V DC (max.)

Main features

Display	10.1" TFT, 24bit colours
Resolution	1280 x 800
Brightness	500 cd/m ²
Touchscreen	Projective capacitive
Ambient temperature	0 °C to +55 °C (vertical installation)
Maritime Specifications	DNV GL, LR

M008 XAB External alarm buzzer



Specifications

Physical

Size W x H x D	144 x 72 x 50 mm
Mounting	Flush or wall mounting
Protection	IP20
Weight	128 g

Power supply

Supply voltage range	18 – 32 V DC
Power consumption	0,5 W

Indicators

LEDs	yellow
Buzzer	Sound pressure level 80 dB (A) / 1 m

field buses

USB to Host

Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M011 XAR External Alarm Reset Panel



Specifications

Physical

Size W x H x D	144 x 72 x 50 mm
Mounting	Flush or wall mounting installation
Protection	IP20
Weight	128 g

Power supply

Supply voltage range	18 - 32 V DC
Power consumption	0.5 W

Indicators

Buzzer	Sound pressure level 80 dB (A) @ 1 m
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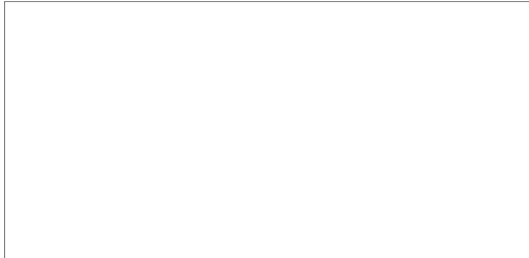
Agency Approvals:

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2

Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1

Maritime Specifications	DNV GL, LR, IACS, BV
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M006-3 BUZ Buzzer



Features

Acoustic signal for workstations
Repeater contact
Acknowledge input

Specifications

Physical

Size W x H x D	100 x 51 x 22 mm
Mounting	screw on or strap on
Protection	IP20
Weight	76 g

Power supply

Supply voltage range	5 V DC via USB
Power consumption	1W

Contact rating	30 V / 1 A NO
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Acknowledge input	24 V DC / 10 mA
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Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M007 PSV Process Server



Features

- 35mm DIN Rail module with rugged stainless steel housing
- Fanless design
- Embedded Linux operating system
- Solid State Disk
- Status indication by LED and text display

Specifications

Physical

Size W x H x D	255 x 80 x 110 mm
Mounting	35 mm DIN rail
Protection	IP20
Weight	2 kg

Power supply

Supply voltage range	18 - 32 V DC
Power consumption	8 - 16 W depending on external module consumption

Indicators

LED	Power, Run, Failure
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field buses

isolated RS485, self powered

Agency Approvals:

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

M014 CFI-1

1 channel CAN to Fieldbus Interface



Features

- CAN 2.0B protocol compability
- ISO 11898 compatible interface
- LED indicators for data flow and status
- Signal contact
- Detachable terminal blocks

Specifications

Physical

Size W x H x D	128 x 64 x 65 mm
Mounting	35 mm DIN rail
Protection	IP20
Weight	170 g

Power supply

Supply voltage range	5 V DC
Power consumption	1 W
- powered directly from Rockson PSV fieldbus lane -	

Field buses

	CAN
Host connection	connection directly to Rockson PSV fieldbus lane

signal contact

Type	solid state
Rating	1 A / 20V AC/DC

Agency Approvals

EMI	IEC 60945 Chapters 9.2, 9.3
EMS	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 3
	EN61000-4-5 (Surge), level 2
	EN61000-4-6 (CS), level 2
Vibration	IEC60068-2-6
Dry Heat	IEC60068-2-2
Humidity	IEC60068-2-30
Low Temperature	IEC60068-2-1
Maritime Specifications	DNV GL, LR, IACS, BV

External Hardware

PPC-7

7" panel PC, Alarm handling unit (touch)



Features

- 7" TFT display
- Resistive touch
- 24 V DC power supply
- Type approved
- Cut out dimensions: 195 x 157 mm

Specifications

(Type EL PPC7 1000/M)

Physical

Size W x H	203 x 165 mm
Mounting depth	105 mm
Front / Rear panel seal	IP65 / IP20
Weight	1.1 kg

Power supply

Power supply	24 V $\pm$ 20%, reverse polarity protected
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Main features

Pixels	800 x 480
Touch screen technology	Analog resistive
Processor	Intel® Atom™ E680T 1.6 GHz
Main memory	2 Gbyte RAM
Flash Memory	SSD 8 GB
External storage medium	
Interfaces	2 x Ethernet 1 Gbit/s 4 x USB 1 x COM (RS-232) 1 x COM (RS-485)

Ambient temperature	0 ° to +50 °C
Rel. ambient humidity	20% to 85% non-condensed
Storage temperature	-20 ° to +70 °C
Rel. storage humidity	20% to 85% non-condensed
Maritime Specifications	DNV GL

PPC-12

12,1" panel PC, Alarm handling unit (touch)



Features

- 12,1" TFT display
- Resistive touch
- 24 V DC power supply
- Type approved
- Cut out dimensions: 310 x 226 mm

Specifications

(Type EL PPC12 1000/M)

Physical

Size W x H	336 x 252 mm
Mounting depth	110 mm
Front / Rear panel seal	IP65 / IP20
Weight	2.3 kg

Power supply

Power supply	24 V $\pm$ 20%, reverse polarity protected
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Main features

Pixels	1280 x 800
Touch screen technology	Analog resistive
Processor	Intel® Atom™ E680T 1.6 GHz
Main memory	2 Gbyte RAM
Flash memory (CFC)	SSD 8 GB
External storage medium	
Interfaces	2 x Ethernet 1 Gbit/s 4 x USB 1 x COM (RS-232) 1 x COM (RS-485)

Ambient temperature	0 ° to +50 °C
Rel. ambient humidity	20% to 85% non-condensed
Storage temperature	-20 ° to +70 °C
Rel. storage humidity	20% to 85% non-condensed
Maritime Specifications	DNV GL

PPC-15

15" panel PC, Alarm handling unit (touch)



Features

- 15" TFT display
- Resistive touch
- 24 V DC power supply
- Type approved
- Cut out dimensions: 373 x 312 mm

Specifications

(Type EL PPC15 1000/M)

Physical

Size W x H	400 x 338 mm
Mounting depth	110 mm
Front / Rear panel seal	IP65 / IP20
Weight	3.7 kg

Power supply

Power supply	24 V $\pm$ 20%, 24 W, reverse polarity protected
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Main features

Pixels	1024 x 768
Touch screen technology	Resistive industrial touch screen
Processor	Intel® Atom™ E680T 1.6 GHz
Main memory	2 Gbyte RAM
Flash memory (CFC)	SSD 8 GB
External storage medium	
Interfaces	2 x Ethernet 1 Gbit/s 4 x USB 1 x COM (RS-232) 1 x COM (RS-485)

Ambient temperature	0 ° to +50 °C
Rel. ambient humidity	20% to 85% non-condensed
Storage temperature	-20 ° to +70 °C
Rel. storage humidity	20% to 85% non-condensed
Maritime Specifications	DNV GL

PPC-15

15" panel PC, Alarm handling unit (touch)



Features

15" TFT Display, aspect ratio 4:3
Resolution 1024 x 768
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 369 x 318 mm

Specifications

(Type MPPC15)

Physical

Size W x H	412 x 351 mm
Mounting depth	80 mm
Front / Rear panel seal	IP67 / IP40
Weight	

Power supply

Power supply	18 - 36 VDC, 100 W
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Main features

Pixels	1024 x 768
Touch screen technology	antireflex glass / resistive touch
Processor	Intel® Celeron®, 2 x 2.2 GHz
Main memory	4 Gbyte RAM
Flash memory (CFC)	SSD 64 GB
External storage medium	
Interfaces	2 x Ethernet 1 Gbit/s 4 USB, 2 available at the front 2 x RS485
Ambient temperature	-15 °C to +50 °C
Maritime Specifications	DNV GL, tested according EN 60945

PPC-17

17" panel PC, Alarm handling unit (touch)



Features

17" TFT display in traditional 5:4
Resolution 1280 x 1024
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 394 x 353 mm

Specifications

(Type MPPC17)

Physical

Size W x H	430 x 390 mm
Mounting depth	80 mm
Front / Rear panel seal	IP67 / IP40
Weight	

Power supply

Power supply	18 - 36 VDC, 100 W
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Main features

Pixels	1280 x 1024
Touch screen technology	antireflex glass / resistive touch
Processor	Intel® Celeron®, 2 x 2.2 GHz
Main memory	4 Gbyte RAM
Flash memory (CFC)	SSD 64 GB
External storage medium	
Interfaces	2 x Ethernet 1 Gbit/s 4 USB, 2 available at the front 2 x RS485
Ambient temperature	-15 °C to +50 °C
Maritime Specifications	DNV GL, tested according EN 60945

PPC-19

19" panel PC, Alarm handling unit (touch)



Features

19" TFT Display in traditional 5:4
Resolution 1280 x 1024
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 439 x 399 mm

Specifications

(Type MPPC19)

Physical

Size W x H	485 x 445 mm
Mounting depth	80 mm
Front / Rear panel seal	IP67 / IP40
Weight	

Power supply

Power supply	18 - 36 VDC, 100 W
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Main features

Pixels	1280 x 1024
Touch screen technology	antireflex glass / resistive touch
Processor	Intel® Core™ i7, 2 x 1.7- 2.8 GHz
main memory	8 Gbyte RAM
Flash Memory	SSD 64 GB
Interfaces	2 Ethernet 1 Gbit/s 4 USB, 2 available at the front 2 x RS485

Ambient temperature	0 °C to +55 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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PPC-24

24" panel PC, Alarm handling unit



Features

24" TFT Display widescreen 16:9
Resolution 1920 x 1080
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 579 x 389 mm

Specifications

(Type MPPC23)

Physical

Size W x H	634 x 445 mm
Mounting depth	85 mm
Front / Rear panel seal	IP67 / IP40
Weight	

Power supply

Power supply	18 - 36 VDC, 100 W
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Main features

Pixels	1920 x 1080
Touch screen technology	antireflex glass / resistive touch
Processor	Intel® Core™ i7, 2 x 1.7- 2.8 GHz
main memory	8 Gbyte RAM
Flash Memory	SSD 64 GB
Interfaces	2 Ethernet 1 Gbit/s 4 USB, 2 available at the front 2 x RS485

Ambient temperature	0 °C to +55 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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VCL

Visualization client



Features

Intel® Celeron® to Intel® Core™ i5, 4'th Generation
Windows 7
multiple onboard Interfaces
24 V DC power supply
Type approved

Specifications

(Type MPC box)

Physical

Size W x H x D

390 x 308 x 84 mm

Protection

IP20 on all sides

Weight

Power supply

18 - 36 VDC, 100 W

Main features

Processor

Intel® Core™ i5, 2 x 2.7-3.3 GHz

main memory

4 GB DDR3-RAM

internal storage

SSD 128 GB

System Software

Windows 7 ultimate 32 bit

Interfaces

2 x PCI

2 Ethernet 1 Gbit/s

2 x USB 3.0, 2 x USB 2.0

2 x RS232

DVI-I , HDMI

Ambient temperature

0 °C to +55 °C

Maritime Specifications

DNV GL, tested according EN 60945

TFT-15

15" TFT monitor (touch)



Features

15" TFT Display, aspect ratio 4:3
Dimmable down to 0
Resolution 1024 x 768
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 369 x 318 mm

Specifications

(Type MM15)

Physical

Size W x H	412 x 351 mm
Mounting depth	75 mm
Front / Rear panel seal	IP65 / IP40
Weight	

Power supply

Power supply	24 VDC (18-32 VDC)
Power consumption	200 W

Main features

Pixels	1024 x 768
Brightness	350 cd
Touch screen technology	antireflex glass / resistive touch
LED Backlight contrast	1000:1

Video In:	VGA, DVI, S-Video
Interfaces	4 USB, 2 available at the front

Ambient temperature	-15 °C to +50 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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TFT-17

17" TFT monitor (touch)



Features

17" TFT Display in traditional 5:4
Dimmable down to 0
Resolution 1280 x 1024
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 394 x 353 mm

Specifications

(Type MM17)

Physical

Size W x H	430 x 390 mm
Mounting depth	75 mm
Front / Rear panel seal	IP65 / IP40
Weight	

Power supply

Power supply	24 VDC (18-32 VDC)
Power consumption	200 W

Main features

Pixels	1280 x 1024
Brightness	300 cd
Touch screen technology	antireflex glass / resistive touch
LED Backlight contrast	1000:1

Video In:	VGA, DVI, S-Video
Interfaces	4 USB, 2 available at the front

Ambient temperature	-15 °C to +50 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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TFT-19

19" TFT monitor (touch)



Features

19" TFT Display in traditional 5:4
Dimmable down to 0
Resolution 1280 x 1024
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 439 x 399 mm

Specifications

(Type MM19)

Physical

Size W x H	485 x 445 mm
Mounting depth	75 mm
Front / Rear panel seal	IP65 / IP40
Weight	

Power supply

Power supply	24 VDC (18-32 VDC)
Power consumption	200 W

Main features

Pixels	1280 x 1024
Brightness	300 cd
Touch screen technology	antireflex glass / resistive touch
LED Backlight contrast	1000:1

Video In:	VGA, DVI, S-Video
Interfaces	4 USB, 2 available at the front

Ambient temperature	-15 °C to +50 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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TFT-24WS

24" TFT monitor wide screen (touch)



Features

24" TFT Display in widescreen 16:9
Dimmable down to 0
Resolution 1920 x 1080
Antireflex glass / Resistive touch
24 V DC power supply
Type approved
Cut out dimensions: 579 x 389 mm

Specifications

(Type MM23)

Physical

Size W x H	634 x 445 mm
Mounting depth	85 mm
Front / Rear panel seal	IP65 / IP40
Weight	

Power supply

Power supply	18-36 VDC, 200 W
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Main features

Pixels	1920 x 1080
Graphic port	VGA, DVI, S-Video, Composite
main memory	8 Gbyte RAM
Flash Memory	SSD 64 GB
Interfaces	4 USB, 2 available at the front

Ambient temperature	0 ° to +55 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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TFT-24WS

24" TFT monitor wide screen (touch)



Features

24" TFT Display in widescreen

Full dimming

Resolution 1920 x 1080

24 V DC power supply

Type approved

Cut out dimensions: 578 x 365 mm

Specifications

(Type M2-M-24 FM / M2-M-24 FM CT)

Physical

Size W x H	588 x 375 mm
Mounting depth	65 mm
Protection class	IP 56
Weight	10.5 kg / 11.2 kg

Power supply

Power supply	24 VDC (18-32 VDC)
Power consumption	

Main features

Pixels	1920 x 1080
Brightness	300 cd

LED Backlight contrast

Video In:	VGA, DVI
Interfaces	2 RS232/422

Ambient temperature	-15 °C to +50 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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TFT-26WS

26" TFT monitor wide screen



Features

26" TFT Display in widescreen 16:10

Full dimming

Resolution 1920 x 1200

24 V DC power supply

Type approved

Cut out dimensions: 609 x 423 mm

Specifications

(Type HD 26T21 STD-xxx-Fxxx)

Physical

Size W x H 621 x 435 mm

Mounting depth 100 mm

Front / Rear panel seal IP65 / IP40

Weight 15,9 kg

Power supply

Power supply 24 VDC (18-32 VDC)

Power consumption 51 W

Main features

Pixels 1920 x 1200

Brightness 350 cd

LED Backlight contrast 1500:1

Video In: VGA, DVI

Ambient temperature -15 °C to +50 °C

Maritime Specifications DNV GL, tested according EN 60945

TFT-27WS

27" TFT monitor wide screen (touch)



Features

27" TFT Display in widescreen

Full dimming

Resolution 1920 x 1080

24 V DC power supply

Type approved

Cut out dimensions: 635 x 401 mm

Specifications

(Type M2-M-27 FM / M2-M-27 FM CT)

Physical

Size W x H	645 x 411 mm
Mounting depth	65 mm
Protection class	IP 56
Weight	13.8 kg / 14.5 kg

Power supply

Power supply	24 VDC (18-32 VDC)
Power consumption	

Main features

Pixels	1920 x 1080
Brightness	300 cd

LED Backlight
contrast

Video In:	VGA, DVI
Interfaces	2 RS232/422

Ambient temperature	-15 °C to +50 °C
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Maritime Specifications	DNV GL, tested according EN 60945
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