



ACM

ANALOG TELEPHONE SYSTEM
INTEGRATED COMMUNICATION SYSTEM
ADVANCED COMMUNICATION SYSTEM





Vingtor-Stentofon products are developed by the Zenitel Group and includes a range of high quality communications equipment and systems. Being in business since 1901, Zenitel's products are recognized globally for offering high quality communications for both offshore and onshore installations. Primary system offering within the Vingtor-Stentofon portfolio are Public Address and Intercom. Zenitel and the company's global partner network, also integrate these systems with other security devices; including Radio, CCTV, Access Control and Alarm for a comprehensive security solution.

Vingtor-Stentofon is world-renowned for its extensive knowledge in the design, construction, installation and maintenance of integrated marine communication systems. Leveraging our long-term experience serving the maritime industry, we offer an impressive portfolio and provide cutting edge solutions to vessels worldwide under the brand name of Vingtor-Stentofon. The Vingtor-Stentofon brand underpins our reputation as a supplier of the most flexible, reliable and advanced communication systems available today.

MEETING YOUR REGULATORY REQUIREMENTS

All Vingtor-Stentofon products that form a part of critical communication have been tested according to IEC 60945, IEC 60533 standards, and comply with SOLAS regulations and codes relevant to on-board communication systems. Our systems are delivered in accordance with the rules of all major classification societies.

FOR ALL YOUR SALES & AFTER SERVICE REQUIREMENTS

Vingtor-Stentofon is a specialist provider of spare parts, repairs, maintenance contracts and refit solutions. Responsibility and availability are our guidelines and customer support and service a first priority.





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2011 2012 2013 2015 2016 2017

ACM COMMUNICATION SYSTEMS

The Vingtor-Stentofon ACM system unites and enhances a vessel's safety systems by providing outstanding on-board communication. The ACM solutions have three main system variants.

These are:

- ACM Analog Telephone System
- ACM Integrated Communication System
- ACM Advanced Communication System

The ACM systems provide reliable, robust and proven communication solutions. The systems have been continuously developed and enhanced to take advantage of new technologies such as IP Networking. The various ACM systems are built around the AlphaCom XE intercom server/exchange. The AlphaCom server/exchange is an advanced communication switch designed to meet the growing needs of internal and external communication onboard marine vessels. The server/exchange features advanced functions such as 1-bit audio technology (20 kHz audio), IP switching, Web services, and a wide range of integration options.

AlphaCom XE is a modular platform, supporting IP as well as analog telephones and networking. This modularity and flexibility is reflected in our product portfolio comprising various system packages. These system packages fulfill the requirements of all vessel types, from small conventional vessels to large advanced ships. (See table on page 5 for a list of capabilities of the various ACM systems.)

FEATURES

- Typed-approved solution for Two-Way handsfree voice communication and Talk-Back, Public Address and General Alarm
- Three main system packages: ACM Analog Telephone System, ACM Integrated Communication System with PA and GA Solution, ACM Advanced Integrated Communication System
- 1-bit audio technology (20 kHz) ensures correct communication
- Modular and flexible systems supporting all vessel types
- Supports IP DECT and wireless handsets
- Supports IP, digital & analog telephones, and networking
- Redundant power input with auto-switchover between AC and DC power
- Supports remote services using IP and Web technologies

TYPE-APPROVALS

The ACM system is tested according to IEC 60945, and is type-approved by DNV-GL, RMRS, CCS, Rina, PRS, CRS, LR, ABS.

















VINGTOR-STENTOFON

CATEGORIES	ACM ANALOG TELEPHONE SYSTEM	ACM INTEGRATED COMMUNICATION SYSTEM	ACM ADVANCED COMMUNICATION SYSTEM
EMERGENCY COMMUNICATION			
Two-way communication according to marine requirement	X	Х	X
Two-way handsfree voice communication according to marine requirement		Х	X
Vingtor-Stentofon integrated Public Address and General Alarm system		Х	Х
Public Address interface	X	X	X
ACM STATIONS			
Analog Telephones	Х	Х	Х
Dect Cordless Telephones	X	X	X
Analog Intercom Stations	Max. 5	X	X
Analog Intercom as PA/GA device		χ	X
P Intercom Stations	Max. 12	Max. 12	X
SUPPLEMENTARY FUNCTIONS	V	V	V
Billing Administration	X	X	X
General PBXs functions	X	X	X
Wireless Paging system via serial ESPA444	X	X	X
Structured cabling system (CAT6A) for high speed data		X	X
Data network (LAN) switches		X	X
Automatic switchover to emergency power	X	X	X
Remote system management, supervision and service via IP network	X	Х	Х
External communication via Satellite, V-Sat, and GSM	Х	Х	Х
Cisco Integration	X	X	X

ACM-M-A-V2 ANALOG TELEPHONE SYSTEM

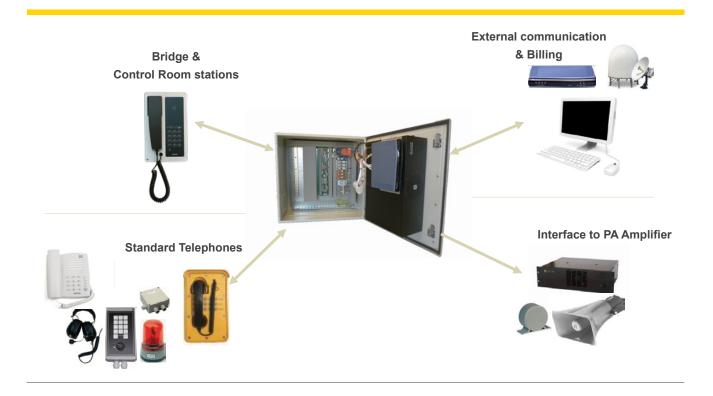
The ACM-M-A-V2 is a PBX made for the marine environment. The exchange is based on the well-proven ACM solution. The system features the latest technologies such as high capacity line cards, remote management and maintenance using IP, and Web technologies as well as VoIP gateways. An optional gateway provides a flexible interface to analog and digital telephone trunks with 2, 4, and 8 channels.

The exchange is available in variants with capacity ranging from 24 to 60 subscribers. It is housed in a wall-mounted cabinet which is optimized for easy installation and maintenance. All connections are easily accessible from the front. The exchange is powered from an AC and/ or DC power supply and features automatic switchover.

The PBX has an interface for connection to a Public Address system. Access to the Public Address interface is programmable.

FEATURES

- PBX made for the Marine environment
- Extensive and programmable features supporting all key PBX functions
- Supports remote management and maintenance using IP and Web technologies
- Supports Public Address (PA) calls via interface to PA systems
- Supports IP DECT and wireless handsets
- External communication (GSM and analog) and billing
- Redundant power input with autoswitchover between AC and DC power
- Supports the Billing system



ACM M-A-V2 TELEPHONE EXCHANGES



- For wall mounting
- Powered by 230 VAC main and 24V DC Emergency, 230V AC main / 230V AC from UPS
- 115V version on request
- Max power 150W
- Automatic switch over between mains and emergency or 230V AC UPS
- Temperature range 0 55 °C (recommended 18 - 25 °C)
- Subscriber capacity; 60 analog telephones
- PA interface 0 dB / 600Ω audio
- External interface and billing: Optional analog telephone gateway, Optional GSM telephone gateway, Optional Billing system
- Protection class IP-22

3006204046

ACM-M-A24/2-V2 PBX FOR 5+24 **EXTENSIONS AND 1 PA INTERFACE, 24VDC AND 230V AC**

- 1x AMC-IP
- 5 traditional lines (4-wire) 1xASLT-2
- 24 analog lines (2-wire) preinstalled 2xATLB-12
- Interface to PA
- 2 analog trunks (230VAC only)
- 1 x MP-114 Gateway



3006204048

ACM-M-A36/2-V2 PBX FOR 5+36 **EXTENSIONS AND 1 PA INTERFACE, 24VDC AND 230V AC**

- 1x AMC-IP
- 5 traditional lines (4-wire) 1x ASLT-2
- 36 analog lines (2-wire) preinstalled 3xATLB-12
- Interface to PA
- 2 analog trunks (230VAC only)
- 1 x MP-114 Gateway



Size (WxHxD): 600 x 600 x 350 mm Weight: 45 kg

Additional Information: Delivered with standard program and documentation for customized programming /documentation ACM/PROG must be added

3006204051

ACM-M-A48-V2 PBX FOR 5+48 EXTENSIONS AND 1 PA INTERFACE. 24VDC AND 230V AC

- 1x AMC-IP
- 5 traditional lines (4-wire) 1x ASLT-2
- 48 analog lines (2-wire) preinstalled 4xATLB-12
- Interface to PA

Size (WxHxD): 600 x 600 x 350 mm Weight: 45 kg

Additional Information: Delivered with standard program and documentation for customized programming /documentation ACM/PROG must be added

3006204053

ACM-M-A60-V2 PBX FOR 5+60 EXTENSIONS AND 1 PA **INTERFACE, 24VDC AND 230V AC**

- 5 traditional lines (4-wire) 1x ASLT-2
- 60 analog lines (2-wire) preinstalled 5xATLB-12
- Interface to PA



Size (WxHxD): 600 x 600 x 350 mm Weight: 45 kg

Additional Information: Delivered with standard program and documentation for customized programming /documentation ACM/PROG must be added



Size (WxHxD): 600 x 600 x 350 mm Weight: 45 kg

Additional Information: Delivered with standard program and documentation for customized programming /documentation ACM/PROG must be added

ACM INTEGRATED COMMUNICATION SYSTEM

The ACM Integrated Communication System is specially designed for use onboard marine vessels. The system is based on the AlphaCom XE platform featuring the latest digital technologies such as IP telephony, Web management and IP switching.

The system supports the integrated SPA PA&GA solution. Together with the SPA, the system is extremely cost efficient where SPA loudspeaker loops are used together with the ACM intercom stations. The ACM intercom stations are type-approved as integrated PA, GA, telephone, and talkback units.

The ACM solution supports a wide range of analog, IP and wireless communication terminals made for the marine environment. IP DECT base stations connect directly to the exchange over IP, providing a very cost-efficient solution for deploying a wireless network onboard.

The DECT telephones, IP telephones, and intercom stations have all access to the same set of ACM features. Users will be able to benefit from full accessibility as well as seamless mobility as they can always be contacted regardless of their location on the vessel.

FEATURES

- Integrated PA and GA solution
- Wide range of audio stations and signal units
- Optional External communication: analog telephone gateway and GSM
- Supports the Billing System
- Remote management and maintenance using IP and Web technologies
- Redundant power input with switchover
- 1-bit digital audio technology
- Typed approved solution for two-way communication, talk-back, Public Address & General Alarm for all vessel types
- Extensive set of features for PBX and emergency communication



ACM INTEGRATED SYSTEM RACKS



1150100002

ACM-M-D-V2 SYSTEM RACK

- Wall mounting
- 8 port switch (6 ports PoE + 2 ports std.) for external equipment, 1 port reserved for AlphaCom connection
- Each exchange can power one additional optional injector kit.
- · Prewired for 6 subscriber cards
- Power 230V AC with automatic switch over to 230 VAC UPS or 24V DC Emergency
- 115VAC version on request
- Integrated PA/GA interface (2 inputs, 2 audio ch. Out. 1 audio ch. In)
- 6 relay outputs / 6 potentially free



Size (WxHxD): 600 x 600 x 350 mm Weight: 45 kg

Additional Information: Delivered with standard program and documentation. For customized programming /documentation ACM/PROG must be added. IP-22

1150100014

AACM-144 V10 SYSTEM RACK

- Floor mounting
- 8 port switch (6 ports PoE + 2 ports std.) for external equipment, 1 port reserved for AlphaCom connection
- Each exchange can power one additional optional injector kit.
- Powered for 23 subscriber cards
- Power 230V AC with automatic switchover to 230V AC emergency
- 24 relay outputs
- Integrated PA/GA interface (6 inputs, 4 audio channels Out, 6 audio channels In)(PA zone selection require custom programming)



Size (WxHxD): 800 x 1250 x 600 mm Weight: 180 kg

Additional Information: Delivered with standard program and documentation. For customized programming /documentation ACM/PROG must be added. IP-20

1150100010

ACM-48-V10 SYSTEM RACK

- Wall or floor mounting
- 8 port switch (6 ports PoE + 2 ports std.) for external equipment, 1 port reserved for AlphaCom connection
- Each exchange can power one additional optional injector kit.
- Prewired for 11 subscriber cards
- Power 230V AC with automatic switchover to 230V AC emergency
- 115VAC version on request
- 12 relay outputs
- Integrated PA/GA interface (6 inputs, 4 audio channels Out, 6 audio channels In)
- (PA zone selection require custom programming)



Size (WxHxD): 600 x 746 x 573 mm Weight: 70 kg

Additional Information: Delivered with standard program and documentation. For customized programming /documentation ACM/PROG must be added. IP-22

Note! 24V DC emergency for:

ACM-48-V10 Use inverter min 750VA

ACM-144-V10 Use inverter min 1500VA

AACM-144 V10 Use inverter min 1500VA

See page 16 for optional inverters.

1150100012

ACM-144-V10 SYSTEM RACK

- Floor mounting
- 8 port switch (6 ports PoE + 2 ports std.) for external equipment, 1 port reserved for AlphaCom connection
- Each exchange can power one additional optional injector kit.
- Prewired for 17 subscriber cards
- Power 230V AC with automatic switchover to 230V AC emergency
- 18 relay outputs
- Integrated PA/GA interface (6 inputs, 4 audio channels Out, 6 audio channels In)
 (PA zone selection require custom programming)



Size (WxHxD): 800 x 1250 x 600 mm Weight: 180 kg

Additional Information: Delivered with standard program and documentation. For customized programming /documentation ACM/PROG must be added. IP-20

ACM ADVANCED COMMUNICATION SYSTEM

The ACM Advanced Communication System offers a complete system for Communication, Data, Safety, and Entertainment. The system comes with benefits such as reduced costs in infrastructure, more efficient operation, improved user experience and the security of typeapproved and certified systems.

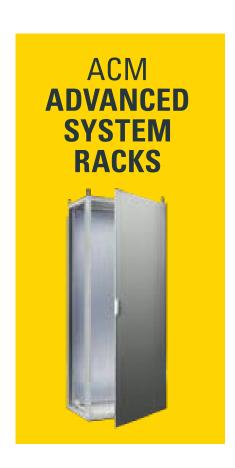
The function modules are integrated and assembled into 19" racks specially made for the marine environment. With the modular building platform, the system can be expanded to provide audio and data communication for 30 to over 1000 users.

The ACM Advanced Communication System provides a type-approved structured cabling system (CAT-6A) as the backbone. With its advanced wiring and patch solution, the system supports all-in-one cabling. This solution results in a significant reduction in cabling infrastructure where a single (CAT-6A) cable can provide telephony (analog or IP), General Alarm, Public Address, internet access, and IPTV to a cabin.

FEATURES

- Made for marine environment
- New modular building platform
- Advanced integration options
- Data network infrastructure
- Advanced cabling solution
- Integrated PA & GA distribution
- Wide range of audio terminals and signal units
- External communication and billing
- Remote management and maintenance using IP and Web technologies
- Redundant power input with switchover





CABINETS INDOOR

Standard cabinets come in the most common sizes. All cabinets are assembled with fixed 19" frames and ready for Vingtor-Stentofon building modules. These cabinets are suitable for Marine applications. All cabinets include two grounding bars, a cable inlet at the bottom, a mounting base and a thermostat controlled ventilation fan in the steel door.

- Material Steel
- Color RAL 7035
- Floor mounted
- Cable inlet bottom (Cable inlet top available on request)

2810010051

CAB24FW PRE-ASSEMBLED CABINET FLOOR 19" 24 HU 800X1350X600 MM, FIXED FRAME, IP-22, W/ VENTILATION

2810010052

CAB24FWD PRE-ASSEMBLED **CABINET FLOOR 19" 24 HU** 800X1350X800 MM, FIXED FRAME, IP-22, W/ VENTILATION

2810010053

CAB42F PRE-ASSEMBLED CABINET FLOOR 19" 42 HU 600X2150X600 MM FIXED FRAME, IP-22, W/ **VENTILATION**

2810010054

CAB42FW PRE-ASSEMBLED **CABINET FLOOR 19" 42 HU** 800X2150X600 MM FIXED FRAME, IP-22, W/ VENTILATION

2810010055

CAB42FWD PRE-ASSEMBLED **CABINET FLOOR 19" 42 HU** 800X2150X800 MM FIXED FRAME, IP-22, W/ VENTILATION

1159607200

ACM-XE7 MODULE

- Max 36 traditional intercom
- Max 72 analog telephones
- Max 552 IP intercoms, IP telephones or IP DECT handsets
- Delivered with standard programming and documentation - programming and engineering for project customizing.
- Equipped with AlphaCom AMC-IP Board, 1009202000 1009296100 STIC for XE1/ XE7



Size (WxHxD): 427 x 133 x 380 mm Weight: 9.0 kg

Additional Information: Assembly included Power supply 2990000033 CPM-SNT-250-10 100-240VAC/24VDC 10A needed

1009627002

XE20/XE26 HIGH AVAILABILITY EXTENSION PACKAGE

- For upgrading of existing ACM-XE20 or ACM-XE26 to have redundant control cards
- 1009202100 AMC-IP Card
- 1009511000 AMC-IP filtercard and APC Upgrade

1159620200

ACM-XE20 MODULE

- Max 102 traditional intercoms
- Max 204 analog telephones
- Max 552 IP intercoms, IP telephones or IP DECT handsets
- Delivered with standard programming and documentation - see programming and engineering for project customising.
- Equipped with: AlphaCom AMC-IP Board, 1009202000 AlphaCom AMC-IP Filter Board, 100951100 APC AlphaCom program & CLOCK, 1009301000 AlphaCom Filter Board APC - FB, 1009503000 Power supply 230 VAC -MK2, 1009703000 Fan module, 1009296200 STIC for XE20 / XE26

1159626200

ACM-XE26 MODULE

- Max 138 traditional intercoms
- Max 276 analog telephones
- Max 552 IP intercoms, IP telephones or IP DECT handsets
- Delivered with standard programming and documentation - see programming and engineering for project customising.
- Equipped with: AlphaCom AMC-IP Board, 1009202000 AlphaCom AMC-IP Filter Board, 100951100 APC AlphaCom program & CLOCK, 1009301000 AlphaCom Filter Board APC - FB, 1009503000 2x Power supply 230 VAC -MK2, 1009703000 Fan module, 1009296200 STIC for XE20 / XE26



Size (WxHxD): 482 x 265 x 365 mm Weight: 19 kg

Additional Information: Assembly included



Size (WxHxD): 482 x 841 x 365 mm Weight: 39 kg

Additional Information: Assembly included

ACM ADVANCED ACCESSORIES

1151101002

POWER MODULE 230V AC MAIN + 230V AC EMERGENCY TYPE B

- Automatic switchover function
- 15 power outlets
- 6 automatic fuses

Size (WxHxD): mm Weight: kg

Additional Information: Assembly included Switch over to 24V DC emergency on request

1153100001

VA-110 CARD CASSETTE

- Eurocard cassette for multi-relay board VA-502 and Filterboard VA-503
- Equipped with Fuseboard VA-111-2
- 9 slots available

1152100004

LOUDHAILING LOGIC WITH INTERFACE TO ACM MODULE

- Includes connection for one SPA-M1 mic panel
- Requires separate amplifier
- Can be a part of All-Call

Related items: Cable and assembly included

1008132020

TKIE-2 TURBINE IP STATION KIT

- IP station kit with extended functionality
- Dual RJ45 for Ethernet connectivity (with switch)
- Dual relays (DPDT)
- 6 configurable I/Os (input, output or LED-driving)
- Line-in/Line-out connectivity for connection to audio devices
- Header for connecting audio accessories
- Connects to high-power relay module (TA-10)
- High quality Turbine™ class output with 10W amplifier
- Full open duplex and digital noise reduction
- Metal enclosure suitable for DIN-rail mounting



Size (WxHxD): 106 x 74 x 30 mm Wt: 0.1kg

Accessories: 1008140170 TA-17 electret mic

1153100005

BASIC PA INTERFACE - A/B LOOP

- Support All Call from ACM panel to SPA and from SPA panel to ACM
- Consist of 2x VA-503 Filter board





Size: 2x Standard Europe card

Additional Information: Assembly cost included Take 2 slot in eurocard cassette

1009501041

FILTER BOARD RJ45 - ONE NEEDED PER ASLT2, ATLB FOR ACM-E20 AND E26

- Allows direct connection of a CAT5 installation cable to the back of the exchange
- One needed per ASLT2,ATLB for ACM-XE20 and ACM-XE26 modules



Size (WxHxD): 73 x 141 x 16 mm Weight: 0.1 kg

1152100001 / 1152100002

PA & GA REDUNDANT CONTROL UNIT MAIN CLASS

- Support 6 PA zones and 2 SPA microphone panels
- Support integrated PA and GA using ACM intercom stations
- 1152100001: 1x 2HU unit, Type-approved PA solution for conventional vessels
- 1152100002: 1x 2HU unit & 1 x 1HU unit, Typeapproved solution for PA and GA according to requirements from DNV,GL, Rina, BV and ABS





Size: 19" 2HU & 19" 1HU

Additional Information: Assembly included

2810050023

BC-13-203 BERGEN CABLING

• 19" Patch Panel 1 HU of stainless steel - 24 ports



Size 19" 1HU

1152101000

EXTRA TERMINAL WITH WIRING - WEIDMUELLER

• One unit needed for each termination point



Related items: Cable and assembly included

1152100003 / 1152100005

PA AND GA REDUNDANT CONTROL UNIT (DNV) & PASSENGER CLASS

- Support 6 PA zones and 2 SPA microphone panels
- Support integrated PA and GA using ACM intercom stations
- 1152100003: 2x 2HU units, Type-approved solution for PA and GA according to requirements from DNV
- 1152100005: 1x 2HU unit & 1 x 1HU unit, Typeapproved solution for PA and GA according to requirements from DNV,GL, Rina, BV and ABS





Size: 19" 2HU & 19" 1HU

Additional Information: Assembly included.

Passenger Class requires 1 set in each A and B rack.

ACM COMMON ACCESSORIES



SUBSCRIBERS, FEATURE **CARDS & GATEWAYS**

Add extra features and functionality to your ACM XE Servers with Feature Cards.

SIP, Analog & GSM Gateways

1009505000

FBSAR, FILTER BOARD AND **SPEECH ADAPTER WITH RELAY**

- Analog interface board to Public Address (PA system or to non-selective radio system
- Includes relay for controlling the PA system or keying the radio transmitter
- Two channels, the first channel supports both input and output signals and is suitable both as PA and mobile radio interface. The second channel is output only and is suitable for PA interface
- Connects to subscriber (ASLT) line
- Galvanic separation between the audio server and the external equipment



Size (WxHxD): 95 x 100 x 25 mm Weight: 0.1 kg

Additional Information: Rack installation; additional assembly cost may apply

1153200052

MRBD MULTI RELAY BOARD WITH 6 RELAY ACM ADVANCED

- · Relay board for control of external equipment, such as door opening, additional call indication, CCTV control etc.
- · Equipped with 6 relays, each with two-poled change over contacts
- The relays are controlled by outputs in the exchange or from the RIO unit (RIO unit available on request)



ASLT2 - SUBSCRIBER LINE

INTERCOM STATIONS

• 6 programmable remote outputs

connections per card

BOARD - SUPPORTS 6 ANALOG

• 6 channels for analog intercom subscriber

1009101010



ATLB12 - SUBSCRIBER LINE

BOARD - SUPPORTS 12 ANALOG

High capacity line card for analog telephones

12 analog telephone connections

6 programmable remote outputs

Hotline and DTMF dialling

1009104000

TELEPHONES



Size (WxHxD): 230 x 263 x 10 mm Weight: 0.5 kg

Additional Information: 1009505000 FBSAR, filter board and speech adapter with relay

Size (WxHxD): 230 x 263 x 10 mm Weight: 0.5 kg

Size (WxHxD): 123 x 78 x 32mm Weight: 0.1kg

Additional Information: 1151004050 Multi relayboard for ACM standard

MP-114 ANALOG MEDIA GATEWAY -FXO 4-PORT - 100-240VAC - LICENSE

- Connects ACM system to the public telephone network
- Supports 4 analog telephone lines
- Web management for easy configuration and installation
- Include assembly

3006204099

MP-118 ANALOG MEDIA GATEWAY -FXO 4-PORT - 100-240VAC - LICENSE

- Connects ACM system to the public telephone network
- Supports 8 analog telephone lines
- Web management for easy configuration and installation
- Include assembly





Size (WxHxD): 220 x 42 x 172 mm Weight: 0.5 kg

Additional Information: Add 1pcs. 1153200006 Patch Cable for SIP & ISDN Gateway

1150102103

MP-11X GATEWAY MOUNTING KIT FOR ACM ADV. W/ WIRING & ASSEM

Allows mounting in standard 19" rack



Size: 19" 1HU

Additional Information: Includes 2370102000, wiring and assembly.

3006204002

92522 GSM GATEWAY - QUAD BAND 850/900/1800/1900 MHZ

- Connects the exchange to GSM for external calls
- GSM coverage using quad band GSM (850/900/1800/1900 MHz)

■ 110 - 265VAC



Size (WxHxD): 205 x 27 x 124 mm Weight: 0.75 kg

 $\label{eq:Additional Information: For use with FXO gateways} \label{eq:Additional Information: For use with FXO gateways}$

Size (WxHxD): 220 x 42 x 172 mm Weight: 0.5 kg

Additional Information: Add 1pcs. 1153200006 Patch Cable for SIP & ISDN Gateway

1150102101

MP-11X GATEWAY MOUNTING KIT FOR ACM-M-X-V2 INCL. ASSEMBLY

• To be mounted on top of the exchange



Size: WxHxD): 246 x 130 x 7 mm Weight: 0,375 Kg

Additional Information: Include: 2370102001 and assembly

2200003000

MV370 GSM MEDIA GATEWAY -QUAD BAND (800/900/1800/1900 MHZ)

- Connects the exchange to GSM for external calls
- GSM coverage using quad band GSM (800/900/ 1800/1900 MHz)
- Web interface for configuration
- 12 VDC (230 VAC using power adaptor)

Size (WxHxD): 145 x 173 x 45 mm Weight: 1,2 kg

Additional Information: Need SIP trunking license Can not be used in combination with billing v.1.2

1150102102

MP-11X GATEWAY MOUNTING KIT FOR ACM-V10 INCL. ASSEMBLY

 For mounting on top of ACM-48-V10 or on the backplane of AACM-/ACM-144-V10.



Size: WxHxD): 225 x 155 x 2 mm Weight: 0.22 Kg

Additional Information: Include: 2370202001 and assembly

92580 GSM MULTIBAND ANTENNA + 10M CABLE & BRACKET

- Antenna for GSM900, GSM1800, PCS1900, 3G **UMTS**
- Frequency range: 890-960, 1710-1880, 1900-2170MHz.
- Fibre glass and Stainless Steel



Size Antenna (WxH): 25 x 445 mm Weight: 0.5 kg

Additional Information: Includes adapter cable and con-

2990050011

ODS-750EU INVERTER 750VA 24 VDC TO 230 VAC APPROX.645W

- Sine wave output voltage
- Selectable output frequency: 50/60Hz
- Adjustable output voltage
- High input-output isolation 3000Vrms
- Remote inhibit
- Three-phase
- Immunity according EN61000-6-2 (EN50121-3-2)
- Emissions according EN61000-6-4 (EN50121-3-2)



Size (WxHxD): 130 x 50 x 270 mm Weight: 1,95 kg

Additional Information: For rack installation 2990050021 120 VAC version

3006204006

92590 GSM MULTIBAND ANTENNA + 20M CABLE & BRACKET

- Antenna for GSM900, GSM1800, PCS1900, 3G **UMTS**
- Frequency range: 890-960, 1710-1880, 1900-2170MHz.
- Fibre glass and Stainless Steel



Size Antenna (WxH): 25 x 445 mm Weight: 0.5 kg

Additional Information: Includes adapter cable and con-

2990050012

ODS-1500EU INVERTER 1500VA 24 VDC TO 230 VAC APPROX.1300W

- Sine wave output voltage
- Selectable output frequency: 50/60Hz
- Adjustable output voltage
- High input-output isolation 3000Vrms
- Remote inhibit
- Three-phase synchronization
- Remote control via RS232
- Alarm by isolated relay contacts Remote off opto-coupled
- Immunity according
- EN61000-6-2 (EN50121-3-2)
- Emissions according EN61000-6-4 (EN50121-3-2)



2990050013

ODS-3000EU INVERTER 3000VA 24 VDC TO 230 VAC APPROX.2135W

- Sine wave output voltage
- Selectable output frequency: 50/60Hz
- Adjustable output voltage
- High input-output isolation 3000Vrms
- Remote inhibit
- Three-phase synchronization
- Remote control via RS232
- Alarm by isolated relay contacts
- Remote off opto-coupled
- Immunity according EN61000-6-2 (EN50121-3-2)
- Emissions according EN61000-6-4 (EN50121-3-2)



Size (WxHxD): 193,5 x 78,5 x 387 mm Weight: 6,0 kg

Additional Information: For rack installation 2990050023 120 VAC version

Size (WxHxD): 160 x 64,5 x 351 mm Weight: 3,8 kg

Additional Information: For rack installation 2990050022 120 VAC version

VPA AMPLIFIERS

For 19" rack mounting require 1HU or 3HU ventilation blind panel for each amplifier when mounted in rack higher than 3HU

- Power amplifier in a 19" rack cabinet
- 100 V and 8 ohm output
- Dual inputs with priority switching
- Temperature controlled, forced back-tofront ventilation
- 115/230 VAC mains and 24 VDC battery backup
- Pilot tone load monitoring
- 24 VDC / 800 mA power output for external equipment
- Chime signal with on/off switch



3005010235

VPA-120 POWER AMPLIFIER, 120W

- Power consumption at 0dB 24V DC 7,5 A
- Power consumption at 0dB 230V AC 1.7 A



Size (WxHxD): 482 x 133 x 420 mm Weight: 18.2 kg

Additional Information:

Tested according to IEC 60945, IACS E10, IEC 60533

3005010239

VPA-400 POWER AMPLIFIER, 400W

- Power consumption at 0dB 24V DC 28,0 A
- Power consumption at 0dB 230V AC 5.4 A



Size (WxHxD): 482 x 133 x 420 mm Weight: 24.2 kg

Additional Information: Tested according to IEC 60945, IACS E10, IEC 6053

3005010237

VPA-240 POWER AMPLIFIER, 240W

- Power consumption at 0dB 24V DC 15,4 A
- Power consumption at 0dB 230V AC 3.1 A



Size (WxHxD): 482 x 133 x 420 mm Weight: 18.2 kg

Additional Information:

Tested according to IEC 60945, IACS E10, IEC 60533

1152000001

VPA-120 Poweramplifier, 120W with assembly included

1152000002

VPA-240 Poweramplifier, 240W with assembly included

1152000003

VPA-400 Poweramplifier, 400W with assembly included

3006206019

RS-3C RACK 3HU, TERMINALS F/230VAC/24VDC IN/OUT

- 19" 3HU cabinet.
- Prepared for amplifier VPA 120, VPA 240 and VPA 400 with all necessary terminals for external
- 230 VAC / 24 VDC in and out signals



3005010052

P5201-D VENTILATION PANEL, 1HU PASO

3005010053

P5203-D VENTILATION PANEL, 3 HU PASO

3005010059

P8013-D PANEL BLANK, PASO 3HU

Size (WxHxD): 520 x 450 x 180mm Weight: 6.0 kg

Additional Information: Prepared with necessary terminals for signal in/out and power supply. Assembly included

DATA SWITCHES

Data switches designed for use in Vinfgtor-Stentofon ACM solutions. For the complete range of dataswitches, see:

www.zenitel.com/products

2370902001

CC2960BRCT 19" BRACKET KIT FOR CATALYST 2960 SWITCHES FLUSH

• 1.5mm thick alu-zink treated steel

Size (WxHxD): 18,8 x 44 x 140mm Weight:

Additional Information: Supplied in set of two

1154002100

DATA SWITCH - 5 X PORTS ETHERNET SWITCH ECON 2050 -DIN MOUNTED

- Unmanaged 10/100 Mb switch
- DIN mounted
- Data switch for connecting ACM exchanges in multi-module configuration or to other IP-modules



Size (WxHxD): 46.5 x 25.5 x 105.4 mm Weight: 0.15 kg

Additional Information: 1x Patch cable ACM-E5/2 and assembly cost included

1154003102

8-PORT SWITCH WITH 6-PORT POE INJECTOR

- 8 port DIN mount industrial switch
- 6 port PoE injector
- Patch cables
- Pre-made power cable for injector
- Spare fuses (2 pcs.)







Size (WxHxD): Weight: 0.553 kg

Additional Information: Require preexisting injector installed with power supply

1154003103

8-PORT SWITCH WITH 6-PORT POE INJECTOR & 24-48V DC POWER SUPPLY

- 8 port DIN mount industrial switch
- 6 port PoE injector
- 24V to 48Vdc power supply
- Patch cables
- Pre-made power cable for injector
- Spare fuses (2 pcs.)



Size (WxHxD): Weight:

Additional Information: Each included power supply can drive one additional injector. Assembly & wiring included

CABLES & PATCH EQUIPMENT

For ACM advanced.

The internal cable sets are used to connect the different function modules to the structured cable CAT-7 patch panel. All cables are equipped with RJ45 connectors and labelling and assembly are included.

The system has the following main cable types.

Cable Type D:

Standard UTP patch cable

Cable Type E:

Data / Data split cable

2810050019

BC-11-004 BERGEN CABLING -CONNECTOR CAT 6A STP V2

Single CAT-6A socket for patch panel



Weight: 0.010 kg

Additional Information: For use in 2810050023 BC-13-203 Bergen Cabling Maritime LAN PP 24p Black - Empty v2

2220040027

BC-12-253 BERGEN CABLING -WALLBOX 1 X RJ45 STP CAT 6A V2

Single network outlet box for either wall or flush mounting



Size (WxHxD): 84 x 84 x 55 mm Weight: 0.080 kg

Additional Information:

BC-11-004-24 BERGEN CABLING -CONNECTOR CAT6A STP V2 24 PCS.

Kit of 24 CAT-6A sockets for patch panel



Weight: 0.240 kg

2810050024

Additional Information: For use in 2810050023 BC-13-203 Bergen Cabling Maritime LAN PP 24p Black - Empty v2

2810050028

BC-12-254 BERGEN CABLING -WALLBOX 2 X RJ45 STP CAT 6A V2

Dual network outlet box for either wall or flush mounting



Size (WxHxD): 84 x 84 x 55 mm Weight: 0.090 kg

Additional Information:

3006204041

ACM-E-DT/US/I SPLIT STATION CABLE - DATA/INTERCOM

- Split station cable for extracting data (Ethernet) and analog intercom from wall socket CAT6A when using cable type A
- RJ45 connectors
- Cabin connection



Length: Data 1.5m / Intercom 2m

Related items: Socket RJ45W-5 or RJ45W-7

2220040006

BERGEN CABLING - DNV APPROVED

- Maritime LAN S/FTB CAT7 cable
- Marine approved network cable



Additional Information: Roll of 500 Mtr.

2810050009

BERGEN CABLING - RJ45 CAT6A DIN OUTLET COMPLETE

- Single outlet for DIN rail
- For application up to 10 Gigabit Ethernet on solid wires



Size (WxHxD): 18 x 70 x 60 mm

Additional Information: The connector is DNV approved.

3006204030

Cable UTP Patch Cable Type D - Length 0.25 M

3006204031

Cable UTP Patch Cable Type D - Length 0.50 M

3006204032

Cable UTP Patch Cable Type D - Length 1 M 3006204034

Cable UTP Patch Cable Type D - Length 2 M 3006204044

Data-Data Split Cable Type E- Length 0.25 M



Illustration photo

2220040028

BC-10-021 BERGEN CABLING - DNV MARITIME LAN S/FTP CAT6A CABLE

- Maritime LAN S/FTB CAT6A cable
- Marine approved network cable



Additional Information: Roll of 500 Mtr.

2810050014

BERGEN CABLING - KEYSTONE TERMINATION TOOL FOR BC-11-004

- Bergen Cabling Keystone Termination Tool is a press tool for termination of the Bergen Cabling DNV approved Maritime LAN Cat.6A 10 Gigabit connector.
- The tool also cut the wires in the same operation.



BC-13-203 BERGEN CABLING MARITIME LAN PP 24P BLACK -EMPTY V2

- 19" Patch panel 1 HU of solid stainless steel 24
- Front adjustable from flush to 7 cm rear
- Heavy duty solution for maritime and offshore installations with good distance from fastening the cable to the snap in connector
- Clip-on mechanism: enhanced strain relief
- Extra tightening mechanism for the snap-ins for vibrations resistance
- Labelling strip included



Size 19" 1HU

PATCH & INTERNAL CABLES

The internal cable sets are used to connect the different function modules to the structured cable CAT6A patch panel. All cables are equipped with RJ45 connectors and labelling and assembly are included. The system has the following main cable types:

Cable type A:

Y-cable for feeding one data switch port and one analog intercom extension into a single CAT6A patch point.

Cable type C:

Y-cable for feeding one relay output and one analog intercom extension into a single CAT6A patch point.

Cable type D: Standard UTP patch cable.

1153200006

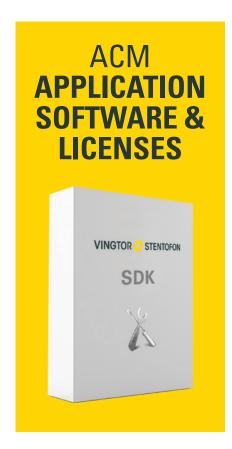
Cable UTP Patch Cable Type D - Length 1 M 1153200008

Cable UTP Patch Cable Type D - Length 2 M 1153200010

Cable UTP Patch Cable Type D - Length 3 M 1153200009

Cable UTP Patch Cable Type D - Length 5M





MANAGEMENT ALPHAPRO

AlphaPro is the tool for configuring the Vingtor-Stentofon ACM system. It is self contained, simple to install and easy to use. When a new server is to be configured, the server is given a working default factory setting.

The operator can then modify the settings such as:

- Directory (type of station, line interface, display name and more)
- Define groups (cell groups, guard groups)
- Interface to CCTV, PA, paging, DECT
- AlphaNet
- Other custom behavior

There are currently over 100 defined features which can be programmed with AlphaPro. AlphaPro is an off-line tool. This means that it is possible to enter all parameters without the necessity of being connected to the server. Once all parameters are entered, AlphaPro can be connected to the server and the parameters can be sent. AlphaPro can also upload configuration information from a server.

- AlphaPro connects to a server via the IP network or a local RS232 interface
- AlphaPro E7 runs without a hardware key. It gives access to all features except AlphaNet, but only for 36 subscribers

AlphaPro Professional uses the Professional hardware key. It gives access to all features for all stations. This version must be used when extensive changes to the autoload are required.

1009291120

AlphaPro professional, USB dongle

1009647902

Billing - 2 external trunks / 400 users

1009647904

Billing - 4 external trunks / 400 users

1009647908

Billing - 8 external trunks / 400 users

1009647916

Billing - 16 external trunks / 400 users

1009647932

Billing - 32 external trunks / 400 users

BILLING APPLICATION

The Billing application makes it possible to control the communication fees and expenses in a ACM system. The application is a full billing system which can generate revenues from the ACM system. It is possible to handle a set of billing scenarios. Fees can, for instance, be calculated depending on carrier type, duration, called number, and time of day. The billing of the users can be done by either prepaid or post-paid payment methods.

1009642001

SIP Trunking license, 1 line

1009642002

SIP Trunking license, 2 lines

1009642004

SIP Trunking license, 4 lines

1009642008 SIP Trunking license, 8 lines

1009642016

01D.T. ...

SIP Trunking license, 16 lines

1009642104

SIP Trunking license 4 lines, Upgrade from 2 lines

SIP TRUNKING LICENSE

SIP trunking gives the possibility to connect an ACM Excange to a telephone network, either directly to a SIP enabled telephone system or through a gateway to an analog or ISDN (BRI or PRI) system.

LICENSES

1009648500

BASIC AUDIO MESSAGING LICENSE

License requires AMC IP v11 hardware. Includes Delayed PA broadcast using recall to prevent feedback problems, 1 auto-attendant message, 2MB memory storage for audio messages. Limited to 3 custom prerecorded messages.

1009648501

ENHANCED AUDIO MESSAGING LICENSE

License requires AMC IP v11 hardware. Includes Delayed PA broadcast using recall to prevent feedback problems, 3 auto-attendant messages, 10MB memory storage for audio messages, Full ASVP functionality. Unlimited number of prerecorded messages within the specified storage space.

VINGTOR - STENTOFON AUDIO MESSAGING

With Audio Messaging you can store and play audio messages directly from your PC or intercom station, and the messages are safely stored in the flash memory of the AlphaCom server. Audio Messaging supports a wide set of applications including auto-attendant, PA broadcasting, voice response and voice driven menus. You can make live PA and group call broadcasts with recall for handling feedback and verifying messages, as well as schedule PA and group broadcasts for specific events and set up an auto-attendant with voice guided menus for handling incoming calls. You can also set up a voice response for call request waiting messages and absence messages. The feature set of the license is compatible with that of the ASVP card, but offers some important functionalities in addition.

1009641001

IP Station License for 1 station

1009641006

IP Station License for 6 stations

1009648001

CRM V LICENSE

Enables the use of IP DAK-48 modules on IP Flush Master Station

1009648011

Soft Client - License For 1 User

1009648012

Stentofon Soft Client - License For 6 Users

1009643006

SIP Station License For 6 SIP Telephones -Supports 6 Sip Or DECT Telephones

IP STATION & SIP STATION LICENSE

IP stations require a license. They do not require additional hardware such as an ASLT card. The maximum number of stations which is supported by an exchange is 552. These can all be IP stations if the network to which they are configured supports multicast. If this is not the case, the maximum number of supported IP stations in an exchange is 50.

Each telephone requires a SIP station license. SIP telephones can be physical units but also SIP softphone clients on a PC or PDA.

1009640002

AlphaNet and Multi-Module VoIP License for 2 Static Lines

1009640008

AlphaNet and Multi-Module VoIP License for 8 Dynamic Lines

1009640016

AlphaNet and Multi-Module VoIP License for 16 Dynamic Lines

1009640030

AlphaNet and Multi-Module VoIP License for 30 Dynamic Lines

1009640108

AlphaNet and Multi-Module VoIP License

for 8 Dynamic Lines, upgrade from 2 lines 1009640202

Multi-Module VoIP License - 2 Modules

1009640203

Multi-Module VoIP License - 3 Modules

1009640204

Multi-Module VoIP License - 4 Modules

NETWORKING

AlphaNet and multi-module linking for the ACM exchanges can be via data networks. This does not require additional hardware inside the exchange, but opening up the capability requires the correct licence. Licenses are required in all connected modules and nodes. There is no difference whether a license is used for an AlphaNet or a multi-module connection. A static license means that the destination of an audio link needs to be defined at commissioning, a dynamic link is a common resource, and can be used for any audio link that requires connection. The data links between modules and nodes are not licensed.

The multi-module license gives the possibility of expanding the size of an exchange. It is possible to add up to 4 modules in a multi-module exchange. The modules will be linked together over a local area IP network (LAN). 30 VoIP channels are available in each exchange module. Note that the license is only required in the master module in the multimodule exchange.

CISCO INTEGRATION

The ACM – Cisco Call Manager Integration expands the vessel's internal communication system to be an integrated communication system for your complete fleet and onshore offices.

The solution uses the ACM system to provide a type approved solution for the vessel and at the same time connects to a Cisco Call Manager Express server onboard the vessel. This allows you to use both Cisco telephones and type approved terminals. The ACM system is part of the private number plan used by the Cisco Call Manager system and connects to the Call Manager Express with VoIP protocols.

The integration allows you to take a best-of-breed approach, where you can mix ACM and Cisco telephones, intercoms, and DECT wireless in the same solution.



MANUALS & SPARES

A100K10647

ACM Family System Installation & Configura-

A100K10649

Data Network Guideline for ACM System

A100K10602

AlphaCom User Guide

A100K10430

ACM-M-A-V2 Telephone System

A100K10805

AlphaCom XE Installation, Configuration & Operation

A100K10390

SIP GSM Gateway MV-370

A100K10333

SIP Gateway Audiocodes MP-114/118

A100K10590

Billing Administration ACM

3006204084

ACMS1 Standard Set Of Spares

PROJECT DOCUMENTATION PROGRAMMING

9011206016

PROJECT DOCUMENTATION

- Zenitel standard documentation package
- Programming
- Installation drawings
- Documentation on CD

3006204012

ACM Programming



ANALOG TELEPHONES

For use with ACM-M-A Exchanges.

Accessories in separate section.

2213000300

VAF-1 ANALOG FLUSH TELEPHONE W/RELAY

- Bridge and ECR console telephone
- Supports DTMF
- Double ringing tone selection for dual telephones in same area
- Solid construction for marine environment
- Adjustable backlight
- Volume control
- Relay output



Size (WxHxD): 170 x 280 x 84 mm Weight: 0.6 kg

Additional Information: IP-22

2212000100

DT-800M DESKTOP ANALOG TELEPHONE

- Solid construction for marine environment
- Desk or wall mounting
- Good audio quality
- Easy to use with large buttons and special function keys
- Suitable for cabins and offices

2213000100

HEAVY DUTY ANALOG TELEPHONE

- 5 mm aluminium casing
- External ringer unit recommended such as HB-105 or CRB-7 with signal light
- Powered by phone line
- Full phone keypad plus special function keys

2213000200

HEAVY DUTY ANALOG TELEPHONE WITH DOOR

- 5 mm aluminium casing
- External ringer unit recommended such as HB-105 or CRB-7 with signal light
- Door has smart stay-open or stay-shut mechanism



Size (WxHxD): 162 x 110 x 195 mm Weight: 0.4 kg

Additional Information: Plugbox PT-625A required IP-22



Size (WxHxD): 205 x 320 x 120 mm Weight: 5kg

Additional Information: IP-66 Optional Junction box JB-15T O.no.3006090476



Size (WxHxD): 205 x 320 x 120 mm Weight: 5.4 kg

Additional Information: IP-67 Optional Junction box JB-15T O.no.3006090476

HSB-03 TELEPHONE WALL W/ HEADSET PLUG, ACTIVE, ON / OFF

- Weatherproof multipurpose telephone
- To be used in combination with headset P-MT7 or handset HAS-3
- Alarm bell HB-105 can be connected direct
- One relay (max 50 mA)
- Protection IP-66



Size (WxHxD): 124 x 724 x 63 mm Weight: 0.6 kg

Accessories:

3005020050 P-MT7 Headset w/Boom Mic, 10M Cord 3005000022 HAS-3 Handset w/C16 Plug

ANALOG INTERCOM STATIONS

For use with ACM Integrated system exchanges.

Accessories in separate chapter.



2213001003

DA24H TELEPHONE WITH HEADSET W/MF/LD KEYPAD DIAL, WT

- Analog industrial Ex Telephone w/ headset for Zone 1
- The telephone set has an extremely robust keypad with 16 push buttons
- Can use both DTMF and pulse dialling
- The handset has an adjustable locking hook
- Ex II 2G EEx m ib e (ib) IIC T6 -20° C<= Ta <=40 °C.
 Ex II 2D EEx m ib e (ib) IIC T4 -20° C <= Ta <=60 °C



Size DA24H (WxHxD): 154 x 221 x 105 mm Weight: w/HS 2,23 kg

Additional Information: Protection IP-66

1007072090

VMP-D619B MAIN STATION LOW/ LOUDSPEAKING W/DISPLAY/VOL OVERRIDE AND D-10 KEYS, BLACK

- Typed approved for broadcasting public address and general alarm as well as two way communication
- Combined wall and desk master station with full access to all features in the ACM exchange
- Easy operation provided by a 2 x 16 character alphanumeric display and ten direct access keys
- Superb audio quality
- Handset for confidential conversations
- Advanced supervision functions
- Volume override
- Approved station for PA/GA



Size (WxHxD): 225 x 75 x 176 mm Weight: 0.670 kg

Additional Information: Station accessory kit needed, see order no. 1009800100

2213001002

DA24 TELEPHONE W/MF/LD KEYPAD DIAL, WT

- Analog industrial Ex Telephone for Zone 1
- The telephone set has an extremely robust keypad with 16 push buttons
- Can use both DTMF and pulse dialling
- The handset has an adjustable locking hook
- Ex II 2G EEx m ib e (ib) IIC T6 -20° C<= Ta <=40 °C.
 Ex II 2D EEx m ib e (ib) IIC T4 -20° C <=Ta <=60 °C



Size (WxHxD): 154 x 221 x 105 mm Weight: 1.9 kg

Additional Information: Protection IP-66

1007034210

VMP-619 MAIN STATION LOW/ LOUDSPEAKING AND D-10 KEYS, IVORY

- Combined wall and desk master station with full access to all features in the ACM exchange
- 10 direct access keys
- Superb audio quality
- Handset for confidential conversations
- Advanced supervision functions



Size (WxHxD): 225 x 75 x 176 mm Weight: 0.670 kg

Additional Information: Station accessory kit needed, see order no. 1009800100

VMP-530 MAIN STATION WT

- Designed for humid, dirty and outdoor conditions, wall mounting
- Built-in microphone
- Need external loudspeaker VML-1520 (not
- Voice operated duplex, full duplex with handset VMP-211 or VMP-250



Size (WxHxD): 124 x 224 x 63 mm Weight: 0.750 kg

Additional Information: IP-65

3006202031

VMP-503PA PORTABLE MAIN STATION W/BUILT-IN L/S WT

- . Designed for humid, dirty and outdoor conditions
- 5 m cable, plug and carrying handle
- Built-in loudspeaker and microphone
- Voice operated duplex

3006202035

VMP-530VHM MAIN STATION W/ HANDMIC IN WT CABINET

- · Designed for humid, dirty and outdoor conditions, wall mounting
- Hand microphone included
- Need external loudspeaker VML-1520 (not included)



Size (WxHxD): 310 x 215 x 160 mm Weight: 4.5 kg

Additional Information: IP-66

1008114010

TCAS-1 TURBINE COMPACT

- Analog MEMS microphone
- Unique 3D speaker grille design
- Dirt, dust and water resistant rating IP-66
- Built to last with robust die cast aluminium frame - rating IK 08
- Yellow thermoplastic front plate with one button plus M and C
- Ideal for Industrial applications

1020600315

VMP-503 MAIN STATION WITH BUILT IN 50 OHM LOUDSPEAKER WATERPROOF

- Designed for use with ACM exchanges and for wall mounting.
- Handsfree open conversation or private when used with Handset VMP-211 or VMP-250.
- Built-in loudspeaker
- Built-in electret microphone gives clear sound
- Keyboard with large digits
- C-key for cancelling calls
- M-key for manual switching of speech direction (simplex).
- Voice operating duplex speech.
- Full duplex when connected with handset VMP-221
- Public Address messages via General Call and Group
- Calls with automatic answer back, are available
- · Audio Programmes can individually be selected and received.
- Screw terminals for easy connection of Installation cables and optional



Size (WxHxD): 124 x 224 x 63 mm Weight: 0.75 kg

Additional Information: IP-65



Size (WxHxD): 124 x 224 x 63 mm Weight: 1.03 kg

Additional Information:IP-65 3006202037 VMP-503PA/15 portable main station w/ builtin loudsp.W/ 15m cable WT - IP-65



Size (WxHxD): 120 x 180 x 54 mm Weight: 0,8 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box IP-66

ACM IP STATIONS

IP INTERCOM STATIONS FOR BRIDGE & ECR

Vingtor-Stentofon offers a comprehensive range of IP intercom indoor solutions. IP intercom stations offer numerous advantages over their analog counterparts, such as minimal installation requirements, remote software upgrades and Power over Ethernet (PoE), among others.

1008097100

CRM-V-HS HANDSET FOR IP FLUSH MASTER

· Handset module for IP Flush Master



Size (WxHxD): 67 x 280 x 41 mm Weight: 0.4 kg

Additional Information: For 1008031000 IP Flush master

2213100000

CRM-VH HEADSET SOLUTION - IP FLUSH MASTER

- Headset solution for IP Flush Master
- Includes ON/OFF switch
- Flush mounting
- Light, comfortable, single-sided mono headset
- Noise cancelling microphone





Size (WxHxD): 96 x 96 x 80 mm Weight: 0.24 kg

Additional Information: IP-21
Disclaimer: Only for included headset

1008010100

CRM-V-DAK48 DAK KEY EXPANSION MODULE FOR CRM-V, 48 KEY

- Extends IP Flush Master Station with 48 programmable DAK keys (direct access keys)
- Ideal for PA, talk-back and telephone calls
- Visual indications with two LEDs (green/red) per DAK key
- All keys have backlight (adjustable)
- Easy labelling of keys



Size (WxHxD): 125 x 280 x 30 mm Weight: 0.65 kg

Additional Information: For 1008031000 IP Flush master Require CRM license

1008031000

CRM-V IP FLUSH MASTER, DISPLAY

- Made for Critical Communication over IP
- Connects directly to the IP network, no geographical limitations
- Large high contrast display with backlight for excellent readability
- White light behind all keys
- Four freely programmable single-touch keys (DAK)
- Superb audio technology
- Optional handset unit
- Remote upgrade, configuration and monitoring
- Internal relay output



Size (WxHxD): 125 x 280 x 30 mm Weight: 0.37 kg

Additional information: 1008097500 Gooseneck Microphone, 1008097100 Handset Require IP station license

1008001000

IP DESK MASTER STATION W/ DISPLAY & HANDSET

- Large high contrast display with backlight for excellent readability
- · Four dynamic menu navigation keys
- Supports broadcast of general alarm and public address functions
- Supports wide set of features such as group call, conference call, call queuing
- Ten DAK keys provide single-touch access functions
- Handset for confidential conversations
- Superb audio quality through wide bandwidth codec and high quality, high output power amplifier
- Integrated Web server
- Remote software upgrade, configuration and monitoring
- Full duplex functionality gives optimal speech quality in loudspeaker mode



Size (WxHxD): 225 x 75 x 176 mm Weight: 0.630 kg

Additional Information: Require IP station license Wall bracket 1008091100

ITSV-1 IP TOUCH VIDEO STATION

- · Video desktop intercom station
- Phonebook with up to 1000 contacts and call history with up to 1000 records
- Dual switched auto-sensing 10/100/1000Mbps network ports
- Wi-Fi (802.11b/g/n), PoE+, Bluetooth, USB, SD, HDMI, EHS with Plantronics headsets support
- 4.3" (480×272) capacitive (5 points) touch screen TFT LCD
- Megapixel CMOS sensor camera with privacy shutter
- HD wideband audio
- Full-duplex hands-free speakerphone with advanced acoustic echo cancellation and excellent doubletalk performance
- Not type-approved



Size (WxHxD): 196.5 x 206.2 x 85.2 mm Wt: 0.92 kg

1023533011

EMMAR-1H MIC FOR ECPIR-3P

- Push-To-Talk button
- Equipped with locking DIN plug
- Digital background noise reduction



Size (WxHxD): 71 x 99 x 39 mm Weight: 0.8 kg Cord length: 3m

Additional Information: IP-66

1023200033

ECPIR-3P

- Indoor intercom for console mounting
- Communication and Power over Ethernet
- Three programmable buttons with individual labels and status indicators
- Separate PTT button
- Optional button protection covers
- Indicators for power, call and fault
- Can be used with handheld or gooseneck mic
- Background Noise Cancellation
- IP Rating: IP32



EBMDR-8

- Button expansion module for console mounted ECPIR-3P intercom
- Powered from master access panel
- · Eight programmable buttons with individual labels and status indicators
- Optional button protection covers
- · Four units can be connected to one intercom



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

Accessories: 1023253008 EBMDR-8 Button Expansion Module, 1023533011 EMMAR-1H Handheld Mic, 3005020033 MB-30G Gooseneck Mic

1008116010

TMIS-1 TURBINE MINI

- Background Noise Cancellation
- Built to last with robust die-cast aluminum frame
- White thermoplastic front plate with one button
- Not type-approved



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

IP Rating: IP-32



Size (WxHxD): 116 x 116 x 40 mm Wt: 0.3 kg

INDUSTRIAL IP STATIONS

1008111010

TCIS-1-TURBINE IP SUBSTATION

- · Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant Class IP 66
- Built to last with robust die-cast aluminum frame
 Class IK 08
- Support wide set of IP and networking standards
- Yellow thermoplastic front plate with one button + M and C
- · Buttons with background light



Size (WxHxD): 120 x 180 x 70 mm Weight: 0.8 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1008115020

TCIV-2 VIDEO STATION

- HD Video at up to 25 FPS (720p)
- Wide angle lens (90°)
- MJPEG and H.264 for integration with most Video solutions
- Designed according to Disability Act requirements
- Background noise cancellation
- Dirt, dust and water resistant IP66 rating
- Built to last with robust die-cast aluminum frame
- Supports wide set of IP and networking standards
- Stainless steel front plate with one button
- Ideal for Building Security and Public Environments
- Background Noise Cancellation
- Not type-approved



Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1008111050

TCIS-5 TURBINE IP SUBSTATION

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant IP66 rating
- Built to last with robust die-cast aluminum frame
 IK08 rating
- Designed according to the norm for hearing impaired
- Support wide set of IP and networking standards
- Black thermoplastic front plate with two labelled buttons
- Unique labeling solution with PMOLED display
- Ideal for Building Security and Public Environments



Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1008115030

TCIV-3 VIDEO STATION

- HD Video at up to 25 FPS (720p)
- Wide angle lens (90°)
- MJPEG and H.264 for integration with most Video solutions
- . Designed according to Disability Act requirements
- Background noise cancellation
- Dirt, dust and water resistant IP66 rating
- Built to last with robust die-cast aluminum frame
- Supports wide set of IP and networking standards
 Black thermoplastic front plate with one button
- Ideal for Building Security and Public Environments
- Background Noise Cancellation
- Not type-approved



Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1008111060

TCIS-6 TURBINE IP SUBSTATION

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant Class IP 66
- Built to last with robust die-cast aluminum frame
 Class IK 08
- Support wide set of IP and networking standards
- Black thermoplastic front plate with scrolling unit for calling to an unlimited number of places
- PMOLED display



Size (WxHxD): 120 x 180 x 70 mm Weight: 0.8 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1008115060

TCIV-6 VIDEO STATION

- HD Video at up to 25 FPS (720p)
- Wide angle lens (90°)
- MJPEG and H.264 for integration with most Video solutions
- Designed according to Disability Act requirements
- Background noise cancellation
- Dirt, dust and water resistant IP66 rating
- Built to last with robust die-cast aluminum frame
- Supports wide set of IP and networking standards
- Black thermoplastic front plate with scrolling unit for calling to an unlimited number of places
- PMOLED display
- Ideal for Building Security
- Background Noise Cancellation
- Not type-approved



Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

TFIE-1 TURBINE EXTENDED INDUSTRIAL IP STATION

- IP intercom for industrial environments
- Dual Ethernet connectivity for redundant networks
- PoF nowered
- Auxiliary DC power for redundancy
- DIP functionality for use with AlphaCom servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dual relay outputs
- 6 configurable I/Os
- Dust- and water-protected to IP-66
- Accessories include Handheld PTT, Headset with ON/OFF and PTT and Handset with PTT
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533311 EMMAI-1H Mic, 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

INDUSTRIAL STATION **ACCESSORIES**

AK5850HS

A-KABEL TWINCOM HEADBAND **HEADSET ATEX**

- Rugged headset for Industrial application
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- High quality audio
- Standard 4-pole Nexus connector for easy connection/replacement
- Designed for Turbine Industrial & Ex Intercoms



Weight: 0.4 kg

Additional Information: IP-66 1008140225 TA-22b 10m Cable and Plugbox with PTT for Industrial

1008122020

TFIE-2 TURBINE EXTENDED INDUSTRIAL IP STATION

- IP intercom for industrial environments
- Dual Ethernet connectivity for redundant networks
- PoE powered
- Auxiliary DC power for redundancy
- DIP functionality for use with AlphaCom servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dual relay outputs
- 6 configurable I/Os
- Dust- and water-protected to IP-66
- Accessories include Handheld PTT, Headset with ON/OFF and PTT and Handset with PTT
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533311 EMMAI-1H Mic, 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

1023533312

EMMAI-2H INDUSTRIAL MIC

- PTT key on handset
- Noise cancelling microphone
- High quality digital background noise reduction
- HD voice compatible
- Designed for Turbine Industrial intercom stations



Size (WxHxD): 44 x 68 x 21.5 mm Weight: 0.22 kg

Additional Information: IP-66 Wallbracket included

1008140225

TA-22B CABLE & PLUGBOX

- 10-meter cable
- Compact, rugged plugbox with PTT
- Designed for Turbine Industrial Intercoms



Weight: 0.4 kg

Additional Information: IP-66 For 1008140220 TA-22 Industrial Headset for Turbine - pluggable

1008122060

TFIE-6 TURBINE EXTENDED INDUSTRIAL IP STATION

- IP intercom for industrial environments
- Dual Ethernet connectivity for redundant networks
- PoE powered
- Auxiliary DC power for redundancy
- DIP functionality for use with AlphaCom servers
- SIP/VoIP functionality for 3rd-party systems
- Dual relay outputs
- Full Keypad + 6 configurable I/Os
- Dust- and water-protected to IP-66
- Accessories include Handheld PTT, Headset with ON/OFF and PTT and Handset with PTT
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- PMOLED display with scrolling unit for calling to unlimited number of places



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533311 EMMAI-1H Mic, 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

1008140230

TA-23 INDUSTRIAL HANDSET

- Rugged handset for Industrial application
- PTT-key for operation in noisy environments
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible



Size (WxHxD): 50 x 200 x 70 mm Weight: 0.310 kg

Additional Information: IP-66

1008140100

TA-10 RELAY MODULE

- Designed for use with Turbine Industrial stations
- Powered by Turbine Industrial stations (TFIE-x)



Size (WxHxD): 100 x 50 x 40 mm Wt: 0.1 kg

Related items: 1008122010 TFIE-1, 1008122020 TFIE-2, 1008122060 TFIE-6, 1008132010 TKIE-1

EX PROOF STATIONS & ACCESSORIES

1008123010

TFIX-1 TURBINE EX STATION

- Ex IP intercom for potentially explosive atmospheres - Directive 94/9/EC
- Ethernet compatible 2-wire interface
- DIP functionality for AlphaCom audio servers
- SIP/VoIP functionality for 3rd-party systems
- Dust- and water-protected to IP-66
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- **Background Noise Cancellation**







Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008123040

TFIX-4 TURBINE STATION

- Ex IP intercom for potentially explosive atmospheres - Directive 94/9/EC
- Ethernet compatible 2-wire interface
- DIP functionality for use with AlphaCom audio servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP-66
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation







Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008123020

TFIX-2 TURBINE STATION

- Ex IP intercom for potentially explosive atmospheres - Directive 94/9/EC
- Ethernet compatible 2-wire interface
- DIP functionality for use with AlphaCom audio servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP-66
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation









Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008150030

TAX-3 HANDSET WITH PTT

- Rugged handset for Ex application
- PTT-key for operation in noisy environments
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- IP Rating: IP66



Size (WxHxD): 200 x 70 x 50 mm Weight: 310 g

1023533511

EMMAX-1H HANDHELD MIC

- Handheld mic with PTT key for Ex applications
- Curled cord
- Noise cancelling microphone
- High quality digital background noise reduction

HD voice compatible

Size (WxHxD): 44 x 68 x 21.5 mm Weight: 0.22 kg

Additional Information: IP-66 Wall bracket included

1008123030

TFIX-3 TURBINE STATION

- Ex IP intercom for potentially explosive atmospheres - Directive 94/9/EC
- Ethernet compatible 2-wire interface
- DIP functionality for use with AlphaCom audio servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP-66
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- **Background Noise Cancellation**







Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

AK5850HS / 1008150025

EX-PROOF HEADSET TAX-2B 10M CABLE & PLUGBOX

- Rugged headset for Ex application
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- High quality audio
- Optional in-ear monitors may be connected for added damping in extreme environments
- IP Rating: IP-66
- Standard 4-pole Nexus connector for easy connection/replacement
- Designed for Turbine Ex explosion-proof intercoms
- AK5850HS: Ex-Proof Headset
- 1008150025: TAX-2B Cable & Plugbox



Weight: 0.4 kg

Additional Information: IP-66 1008150025 TAX-2b 10m Cable and Plugbox with PTT for AK5850HS

ACCESSORIES FOR STATIONS

3005020052

SB01 SOCKETBOX WP FOR P-290

- For shore line connection
- · Box in fiber glass reinforced polyester



Size (WxHxD): 75 x 80 x 56 mm Weight: 0.4 kg

Additional Information: IP-65

1009800100

DESK STATION ACCESSORY KIT

- Cable
- Plugbox
- Wall bracket



Size (WxHxD): 55 x 20 x 68 mm Weight: 0.05 kg

PT-625A-4-50 JACK SURFACE RJ11

Wall mounted socket for analog telephones

Additional Information: For DT-800M

3006102026

3005000034

CRB-7 RELAY BOX - 24VDC, 110/220VAC - SIGNAL UNIT, WT

- Unit designed for activation of extra signal device connected to telephone in noisy area
- Activated by ringing voltage



Size (WxHxD): 120 x 122 x 5 mm Weight: 0.4 kg

Additional Information: IP-66 For analog stations only

3005020050

P-MT7 HEADSET W/BOOM MIC, 10M CORD W/4-P PLUG (FOR HSB-03)

- · Headset for Analog Telephone and Talk-Back systems
- To be used in noisy areas



Weight: 1.2 kg

Additional Information: IP-54

Weight: 0.28 kg

Additional Information: Kit for VMP-D619B and VMP-619 1008001000 IP Desk station, use wall bracket only 1008091100

3006102047

HB-105 TELEPHONE TONE CALLER 60-100V AC, 105 DBA, WT

- Designed to replace the traditional mains bell
- Powered by telephone line
- A suitable additional ringer device for telephones in weather exposed and noisy areas



Size (WxHxD): 86 x 86 x 50 mm Weight: 0.2 kg

Additional Information: For all analog telephones

3005000022

HAS-3 HANDSET FOR HSB-03 W/ C16 PLUG

- Handset with cradle and push button switch
- Designed for use together with HSB03



Size (WxHxD): 120 x 122 x 5 mm Weight: 0.4 kg

Additional Information: IP-44 WT version: 3005000023 HAS-3WT IP-66

3006090313

64P3004 PLUG C16-1 4-PIN MALE

- For telephone connected to SB01= shore line connection
- Plug in polyamid material with PG-13.5 cable inlet



Size (WxHxD): 120 x 122 x 5 mm Weight: 0.4 kg

Additional Information: IP-66

1020600992

IRR-3 RELAY BOX 24V DC OR 220V AC - SIGNAL UNIT

- Separate relay unit for operation of 24 VDC or 220 AC visible and/or audible signal units.
- Wall mounting



Size (WxHxD): 110 x 80 x 63 mm Weight: 0.35 kg

Additional Information: IP-66

1020600993

IRR-4 RELAY BOX FOR CLOSING CONTACT INPUT 24VDC & 115/230VAC

- Use a potential free contact to switch an external voltage supply to an external unit
- Support input: 24Vdc, 110-115Vac and 220-240Vac
- Support output: 24 Vdc max 6A, 110-115Vac or 220-240Vac max 2A



Size (WxHxD): 122 x 120 x 55 mm Weight: 0.4 kg

Additional Information: IP-66

VMP-36-PEL HEADSET WITH BOOM MIC. WITH 10 METER CABLE

- Portable headset
- Includes switchbox with ON/OFF and Talk push button w/ belt clip
- Standard with 10 meter cable
- To be used in noisy areas

3006202029

VMP-36-PELP PORTABLE HEADSET WITH BOOM MIC. AND 10 METER **CABLE AND PLUG**

- Portable headset for connection to CD-7 Plug Box
- Includes switchbox with ON/OFF and Talk pushbutton w/ belt clip
- Standard with 10 meter cable and plug 4 pin Amphenol
- To be used in noisy areas

3006202007

CD-7-VMP PLUGBOX WT

- Designed to be used together with VMP-36-PELP, portable headset
- Has socket with dustcap
- Supports headset with ON/OFF button
- For on wall mounting



Size (WxHxD): 80 x 110 x 63 mm Weight: 0.4 kg

Additional Information: IP-66





3006090486

MT9 THROAT MICROPHONE FOR VMP-36-PEL/PELP

- Bone construction, vibration sensitive
- Impedance: 3900 Ohm @ 1kHz
- Cable: PUR, flame retardant, black ø3.0mm



Weight: 1.1 kg

Additional Information: IP-54

Weight: 1.1 kg

Additional Information: IP-54

Weight: 0.04 kg

3006202024

VMP-211 WALL MOUNTED HANDSET

- For use on Industrial Master Stations
- The built-in loudspeaker is disconnected when lifting the handset
- Includes push to talk key in handset

1020600700

VMP-250 WALL MOUNTED **HANDSET WT**

- Weatherproof heavy duty industrial handset
- For use on Industrial Master Stations
- The built-in loudspeaker is disconnected when lifting the handset
- Includes push to talk key in handset

1020159000

CD-4 PLUG-BOX WT

- For portable unit VMP-503PA / VMP-503PA/15
- Wall mounting



Size (WxHxD): 80 x 110 x 63 mm Weight: 0.35 kg

Additional Information: IP-66



Size (WxHxD): 80 x 250 x 155 mm Weight: 0.9 kg

Additional Information: IP-44

Size (WxHxD): 98 x 242 x 153 mm Weight: 0.9 kg

Additional Information: IP-65



VMP-204 POWER AMPLIFIER 220VAC/12W IN 20 OHM

- Slave amplifier for VMP stations
- When extra loudspeakers is required in noisy areas
- Output, low impedance 8 20 ohm
- To be mounted close to the station.



Size (WxHxD): 120 x 220 x 91 mm Weight: 1.2 kg

Additional Information: IP-66

3005000029

MODEL-A TELEPHONE BOOTH DESK/ WALL ALUMINIUM WITH FULL SHELF

- Sound absorbent wall mounting / table top
- Full shelf (250 mm)
- Lightweight



Size (WxHxD): 584 x 622 x 495 mm Weight: 8.2 kg

SIP PHONES

Each phone requires a SIP station license.



3006100088

VML-1520 HORN LOUDSPEAKER 15W/20 OHM WT

- General purpose 15 Watt 20 ohm horn loudspeaker
- For use in deck areas, engine room etc.
- To be used together with ACM or talk-back



Size (WxHxD): 250 x 145 x 270 mm Weight: kg

Additional Information: IP-66 Optional junction box JB-15T, see chapter "Loudspeakers"

1008140010

TA-1 TURBINE COMPACT ON WALL BOX

For on-wall mounting of all Turbine Compact Stations



Size (WxHxD): 120 x 180 x 62mm Weight: 0.8kg

Related items: All Turbine Compact Stations

2200012002

GXP-1780 SIP PHONE

- SIP telephone with display
- 8 lines, 8 dual-color line keys (with 4 SIP accounts), 4 XML programmable soft keys
- 5-way audio conferencing
- 32 digitally programmable & customizable BLF/ fast-dial kevs
- Built-in USB port for importing and exporting data
- HD wideband audio, full-duplex hands-free speakerphone with advanced acoustic echo cancellation
- Built-in PoE to power the devices and give it a network connection
- Supports headset use with a RJ9 headset jack and EHS support for EHS-capable Plantronics headsets
- Automated provisioning using TR-069 or AES encrypted XML configuration file
- Large phonebook capacity with up to 500 contacts and call history with up to 500 records



Size (WxHxD): 231 x 86 x 167 mm Weight: 0.9 kg

2340020010

DSP-15EEXMN W/ SST BRACKET EX SPEAKER 20 OHM 15W W/2X **GLANDS ATEX IP67**

- Material / Color Anti-static PA / Black
- Mounting Bracket
- Effective freq. range 410 - 7000 Hz
- For Zone 1



Size (WxHxD): 106 x 144 x 207 mm Weight: 2.2 kg

Additional Information: IP-67 Atex approved 2340020057 DSP-15EExmN 80hm version

3006204179

RJ45 INDUSTRIAL 10G PLUG

- RJI 10G RJ45 plug Cat6, 8p IDC
- 1/10GBit Ethernet
- Male plug
- Cable diameter 4.5 9.0 mm



Size LxD): 57 x 16mm Weight: 0.009kg

Related items: For Turbine compact stations

2200011003

AC-2500 ANDROID ENTERPRISE CONFERENCE PHONE

- Runs Android 4.4 and offers full access to the Google Play Store and all Android apps, such as Skype, Google Hangouts, etc
- Supports 6 lines, 6 SIP accounts and 7-way voice conferencing
- Auto-sensing 10/100/1000mbps network port
- TLS and SRTP security encryption technology to protect calls and accounts
- Built-in PoE+ to power the device and give it a network connection
- Built-in Bluetooth for syncing headsets and mobile devices
- WiFi support offers mobility
- HD audio to maximize audio quality
- 4.3" capacitive touch screen



Size (WxHxD): 280 x 60 x 285 mm Weight: 1.3 kg

FLOWIRE CABLING

The Flowire Converter enables Ethernet to run on the same two wires as power, enabling simpler cabling and opens up for longer cable hauls.

1008080110

FCDC1 FLOWIRE ETHERNET CONVERTER, DC VOLTAGE

- One single pair of cable can be used to distribute power and data
- The cable hauls can be longer, reducing the need for switches and/or repeaters
- Up to 10 Flowire devices can be connected to the same 2-wire cluster
- Existing infrastructure can be used, even though only a single pair is available. This reduces the total cost of retrofit projects
- The Flowire converter can be used with any Ethernet enabled device (not limited to Vingtor-Stentofon products)
- Power 24 Vdc 48 Vdc



Size (WxHxD): 120 x 65 x 13 mm

Weight: 0.3 kg

1008080210

FCDC2 FLOWIRE ETHERNET CONVERTER, DC VOLTAGE

- One single pair of cable can be used to distribute power and data
- The cable hauls can be longer, up to 2 km, reducing the need for switches and/or repeaters
- Up to 10 Flowire devices can be connected to the same 2-wire cluster star topology
- Existing infrastructure can be used, even though only a single pair is available. This reduces the total cost of retrofit projects
- The Flowire converter can be used with any Ethernet enabled device (not limited to Vingtor-Stentofon products)
- Protection IP-20

Important:

- 24V DC non-PoE for Ex equipment
- FCDC2 Flowire is required for Ex Call & Alarm Panels



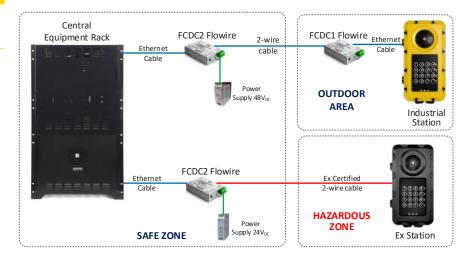
Size (WxHxD): 110 x 66 x 17 mm

Weight: 0.3 kg

CONNECTION TO CENTRAL EQUIPMENT RACK FOR INDUSTRIAL AND EX STATIONS

The intercom stations can use the 2-wire Flowire system for connection.

Flowire is used to extend the Ethernet connection and support power distribution on the 2-wire cabling infrastructure. To support the Flowire interface, the central equipment rack must be equipped with an FCDC2 Flowire Converter. Each industrial station located in an outdoor area will require its own FCDC1 Flowire Converter. The Ex station located in a hazardous zone is connected to the central equipment rack located in the safe zone using an Ex certified shielded 2-wire cable.



2990101120

XP POWER SUPPLY, 48VDC 120W FOR FCDC1

- Up to 90% Efficiency
- Wide Adjustment Range
- Parallel Function
- DC Standby Versions
- Full Power from -40 °C to +60 °C
- Connector Options



Size (WxHxD): 142 x 63.5 x 116 mm Wt: 920g

2990101240

XP POWER SUPPLY, 48VDC 240W FOR FCDC1

- Up to 90% Efficiency
- Wide Adjustment Range
- Parallel Function
- DC Standby Versions
- Full Power from -40 °C to +60 °C
- Connector Options

Size (WxHxD): 142 x 83 x 111.3mm Wt: 1360g

2990102120

FLOWIRE EX 120 POWERBOX PSU, 24VDC 120W FOR FCDC2

- EN60945 compliant
- Universal input (90 265 Vac)
- Efficiency above 90%
- Active Power Factor Correction
- Adjustable output
- Overload and overvoltage protection
- Thermal overload protection
- Conformal coating
- DC OK signal and potential free contact
- Cooling by free air convection
- RoHS compliant
- Internal redundancy diode
- Single or parallel mode user selectable



Size (WxHxD): 132 x 37 x 128 mm, Wt: 0.92 kg



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