



MARITIME & ENERGY DIVISION
PRODUCT CATALOGUE - MAY 2013



www.jotron.com

Introduction

Jotron AS develops and manufactures professional communication systems for all types of vessels and energy offshore/onshore constructions.

Our core product range includes internal telecommunication equipment, VSAT antenna systems and GMDSS emergency radio equipment. Jotron also offers radios for helicopter communication and VHF radios for coast stations and offshore installations. The company manufactures PAGA, automatic telephones (PABX), intercom, loud hailing, talkback and sound reception, marking lights, personal strobe light and SOLAS approved lifebuoy/lifeboat lights.

Jotron's extensive and flexible range of electronic products have been carefully designed and built for harsh maritime and offshore environments. The systems are in use world-wide on merchant ships, fishing vessels, tug boats, offshore supply vessels, as well as various navy ships and energy installations offshore/onshore.



CIS 3100 - COMMAND INTERCOM SYSTEM

Command Intercom System CIS 3100 is especially designed for important communication links onboard ships and boats. The new design is very compact, and the performance is extended by use of microprocessor technics. System **CIS 3100** consists of a line of 3 different master stations; type 3100 (5 ext.), type 3101 (10 ext.) and type 3102 (20 ext.), together with various quantities of substations of 9000 series. System **CIS 3130** consists of 1 master station type 3130, 1-4 remote stations type 3131/3132, and up to 15 substations selected from the standard range.



CIS 3130



CIS 3100



CIS 3101



CIS 3102

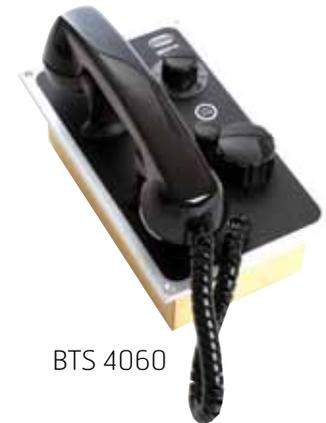


CIS 3132

BTS 4000 - BATTERYLESS TELEPHONE SYSTEM

System BTS 4000 is an emergency telephone system without the requirement for any external power supply. All energy required for 4-6 minutes of continuous operation is produced by the call generator. The system is equipped with a sophisticated, extremely low power amplifier with high power and low distortion output. The amplifier is integrated in one of the telephone units to reduce the installation cabling. The system may also be connected to 24 VDC power supply to ensure continuous operation under normal conditions. The system automatically switches to batteryless and emergency operation in case of mains failure.

The system is based on three types of units; 4050-single line (direct call), 4060-12 lines version and 4040-24 lines version. Any configuration needs one master telephone with a built-in amplifier, either 4051-single line or 4060-12 line version. For the 24 lines version a separate speech amplifier type 4000 is needed.



BTS 4060

DICS 6100 - DIGITAL INTEGRATED COMMUNICATION SYSTEM

The DICS 6100 Integrated Communication System is a digital communication system meeting all aspects of internal and external communication onboard ships. Based on the latest technology its flexible configuration is a cost effective solution for Intercom, Telephone, Public Address, Alarm, Loudhailing and Entertainment.



DICS 6113



DICS 6110



DICS 6112



DICS 6101



SPA 1500 - PUBLIC ADDRESS SYSTEM

The SPA-1500 system is a standard marine Small Public Address system, especially designed to cover the need for PA and entertainment distribution onboard small and medium size vessels. This system has a very compact design, but promises much of the functionality of larger systems. The customers may choose between many optional functions/facilities, and thus obtain an almost tailor-made PA system.



SPA 1500



SPA 1501



SPA 1506



SPA 1530

MPA 1600 - PUBLIC ADDRESS SYSTEM

The MPA 1600 is a marine and offshore Public Address System, especially designed to meet the requirements for PA/GA and entertainment distribution onboard ships and mobile offshore units. The system conforms to SOLAS, IMO and IEC regulations. Based on modular design and flexible configuration, the system covers a wide range of installation complexities from small single loop to fully duplicated systems utilizing total redundancy.



MPA 1601b



MPA 1601a



MPA 1603



MPA 1605



MPA 1606



MPA 1600



MPA 1610



PAGA MPA 1600



PAGA 1700 - PUBLIC ADDRESS & GENERAL ALARM

The Phontech 1700 PAGA is designed to meet the tough requirements for PAGA systems to the oil and gas - and other industrial applications, both off-shore and onshore. The system will distribute messages and alarms with special focus on ease of operation and safety, speech intelligibility, reliability and fault tolerance. In addition, the system has built in self test and monitoring functions for easy and cost efficient maintenance.



PAGA 1653



PAGA 1652



PAGA 1700

ICS 6200 - INTEGRATED COMMUNICATION SYSTEM

The new ICS 6200 Integrated Communication System is a digital communication system meeting all aspects of internal and external communication, information exchange onboard vessels, offshore installations and to/from onshore operation centres. Based on the latest computer technology, it's flexible configuration is a cost effective solution for Intercom, Telephone, Public Address, Alarm, Loudhailing and Entertainment.

The modern architecture allows for network connection including cascading, remote service and interface to/ from other IP based systems and components.



ICS 6200



5113 / 5123 Console Telephone



SNOM 300 IP Telephone

SR 8300 - SOUND RECEPTION SYSTEM

The Phontech Sound Reception system SR 8300 is designed for use onboard ships according to one man operated closed bridge class, to receive and detect other vessels foghorn. The new digital system includes the following:

- Digital sound processing (DSP) for best performance
- Only one omnidirectional microphone/antenna SR 8301
- Optionally several slave display units SR 8300
- Amplification of meaningful sounds within 70-820 Hz
- Easy installation



SR 8300



JOTRON B120 VSAT ANTENNA

The Jotron B120 is an innovative stabilized antenna offering a simple and clean design. Use of the latest technology allows for high performance from very compact and robust RF and electrical components. The compact mechanics and RF enable having a 1.25 m dish inside a radome of comparable size and weight to typical 1 m stabilized antennas. The larger dish gives better speed and more fading margins. Our advanced remote support tool, JRAS, enables remote diagnostic, maintenance and problem solving in almost all cases and removes the need for regular onboard maintenance.

The compact and robust designed platform can withstand the most demanding environmental conditions. Our own designed advanced tracking receiver ensures optimum satellite tracking for all types of received carriers. Jotron B120 is fully flexible concerning integration with VSAT modems or other equipment. The Jotron B120 also gives full flexibility in combinations of satellite frequencies and polarizations including the super extended transmit band.



JOTRON B85 VSAT ANTENNA

Jotron B85 is an 85 cm maritime VSAT communication antenna system. Jotron B85 can be configured from factory for either Ku-band or Ka-band operation. The upgrade can also easily be performed on the vessel.

Jotron B85 also has the same powerful support tool, JRAS, which makes it easy to operate, install and support Jotron B85 when trained on Jotron B120.

With the highly efficient antenna and the integrated Transceiver Module connected directly to the antenna feed, Jotron B85 has a remarkable performance. Due to this the B85 has a RF performance which is marginally lower than typical 1 m stabilized antennas and occupies half the radome space.

The Jotron B85 is designed to withstand the most demanding sea conditions and ship environments, including temperature, shock and vibration. This ensures high service availability on all types of vessels.



The antenna can lock onto the satellite without requiring any external input from e.g. the ship's compass. The B85 is a true global and future proof antenna. It is capable of receiving and transmitting on all global VSAT satellite signals at Ku or Ka band. Best global transmit performance is ensured by automatically keeping transmit gain constant, independently of for example cable loss, carrier frequencies and temperatures.

JOTRON B60 VSAT ANTENNA

The Jotron B60 is a down scaled version of the Jotron B85. The downscaling is performed by still having all spare parts common for Jotron B60 and Jotron B85. B60 is around 30 kg lighter and requires much less space for installation. Jotron B60Ku is mainly recommended for regional applications with stronger satellites.



HELICOPTER COMMUNICATION

The 7000 series VHF radios are intended for rackmounting on oilrigs and helicopter-decks. The radio gives safe and easy communication. The radio combines excellent RF performance in congested areas, with advanced digital signaling technique. Easy control, no internal tuneable parts and improved reliability are some of the general features. Multi/single channel VHF/AM Transceiver in 19" sub-rack 3U high, 99 channel fast recall store, 8.33 (25) kHz channel spacing in the band 117.975-137 MHz, RS-485 serial interface, full digital control and diagnostics. Operates from AC mains with auto fail to 24V DC.

The TR-810 is designed to meet future demands for a light-weight, rugged and flexible radio, designed for helideck and offshore applications. The flexible design is achieved by making the Operators Control Panel (OCP) detachable from the compact base unit. Communication between the two units is via standard CAT-5 cable. By being able to separate the OCP from the base unit, it opens up for three main user applications.



TR-7710/25



TR-810 OF

MARITIME AND COASTAL RADIO STATION AND REMOTE CONTROLLER

The VHF Coastal radio is for coast stations and offshore installations requiring high quality FM voice and digital selective calling (DSC) requiring FM voice and digital selective calling (DSC). The radio is intended for use primarily as a coast station providing communication between coast and ships. Jotron radios have a worldwide reputation for outstanding performance in harsh environmental conditions. The mechanical design of the transceiver is based on the well proven Jotron 7000 series. The radios got IP interface for VoIP, monitoring and control as well as a 4W E&M interface. Also available as separate receiver and transmitter.

The RRC-7700 is a VoIP based remote system –touchscreen operated. Operates up to 6 Transceivers from a single remote position. Up to 4 operators may utilize same radios from different positions. Uses IP technology to transfer both Voice and control data. Requires no voice switch – standalone system. Cost-effective alternative to conventional Voice Switches for Small/Medium size installations.



TR-7750C



RRC-7700



Tron 60S/GPS

Small, compact and sealed GMDSS EPIRB (Emergency Position-Indicating Radio Beacon). Complies to IMO, SOLAS regulation. Optimal visibility is achieved with high-intensity LED, located at the top of the antenna. No transport restriction due to the use of non-dangerous goods batteries. The new EPIRB is supplied either with a manual or float-free bracket.



Tron 40S/GPS MkII

GMDSS float-free satellite, EPIRB. 5 years warranty. Non hazardous battery. Compact model. Flexible mounting. Designed for fast and easy service and maintenance. Operates on the COSPAS - SARTSAT frequency 406 MHz. Identification and positioning via satellite. Transmits also on the air traffic emergency frequency 121,5 MHz for homing. Complies with IMO/SOLAS/GMDSS regulations. MED and FCC approved. Service stations worldwide.



Tron AIS-SART

- Tron AIS-SART gives the exact location, with GPS precision
- VHF signals are being transmitted on AIS Channel A and B
- Position update - every minute

GMDSS Search and rescue transmitter. 5 years warranty. Non hazardous battery. Tron AIS-SART (search and rescue transmitter) is designed for use in search and rescue operations. Complies with IMO/SOLAS/GMDSS regulations. MED and FCC approved. Service stations worldwide.



Tron SART20

GMDSS 9 GHz radar transponder. 5 years warranty. Non hazardous battery. Tron SART20 (search and rescue radar transponder) is designed for use in search and rescue operations. Tron SART20 gives the exact location of the distressed indicated on the radar X-band display of any nearby ship, SAR vessels and aircrafts. Complies with IMO/SOLAS/GMDSS regulations. MED and FCC approved. Service stations worldwide.



Tron TR20 GMDSS HANDHELD VHF RADIO

Rugged VHF radio for emergency situations and regular use for onboard communications. Easy to operate by one hand or wearing gloves. Both display and keys have back light facility to ease operation in low light conditions. Channels: 21 channels, including channel 16. Watertight to IP67. Complies to ETS 300 225 and IMO/SOLAS/GMDSS regulations. MED and FCC approved.



Tron AIS TR-8000 (Class A)

Separate display and transceiver unit, 7" Touch Screen Display, compact design for easy installation. Console or desktop mounting, combined Junction-box/transceiver unit included, display rated to IP54. Compliant to in-land waterways requirements, easy ECDIS interface, software upgradable.



Tron ML-series

The new Tron ML-series have several special and valued features implemented. They can be activated through software (SW) programming:

- SW-adjustable light-intensity
- SW-programmable flash-rate
- SW-programmable synchronizing if more than 2 lights - defined as "master/slave"
- High Intensity LED
- SW-adjustable "daylight-switch"
- Tron ML-100 uses 3 x Alkaline D-Cells, total of 4.5 VDC
- Tron ML-300 uses external 10-27 VDC

The new Tron ML-series have a module-based construction, making them user-friendly during any service and repair.

Tron ML-100 and Tron ML-300 will replace the previous Jotron marking light series Jotron MF-series.



Tron ML-100, 4.5 VDC, 3 Alkaline D-Cells



Tron ML-300, 12-24 VDC, External power



Tron ML-series

Tron ML-EI unit, 4.5 VDC and 12-24 VDC

The new Tron ML-series EI-unit contains the same special valuated features as Tron ML-100 and ML-300.



Tron SL-300

LIFE BUOY LIGHTS

Approved according to SOLAS, sealed, small and compact, 5-years sealed battery (non dangerous goods). 2 Candela light intensity, unbreakable high intensity LED.



Tron SL-400

LIFE BOAT LIGHTS

Approved according to SOLAS, sealed, small and compact, 10-30 VDC external power and flange mount. >4,3 Candela light intensity, unbreakable high intensity LED.



AQ-4 MK II

AQ-4 MK II, the high quality multi-purpose marking and distress personal strobe-light, is designed for use in extreme rough maritime and on-shore environmental. AQ-4 MK II is developed with a high intensity LED that by a two-way switch activates either flash or fixed light. AQ-4 MK II is water-proof down to 300 meters.





CONTACT INFORMATION

Jotron AS
P.O.Box 54
3281 Tjodalyng
Norway
Tel: +47 33 13 97 00
Fax: +47 33 12 67 80

Jotron Asia Pte. Ltd.
19 Loyang Way
Changi Logistics Centre
Rear Office Block 04-26
Singapore 508724
Tel: +65 65426350
Fax: +65 65429415

Jotron UK Ltd.
Crosland Park
Cramlington
NE23 1LA
United Kingdom
Tel: +44 (0) 1670 712000
Fax: +44 (0) 1670 590265

Jotron USA, Inc.
10645 Richmond Avenue, Suite 170
Houston, TX 77042
USA
Tel: +1 713 268 1061
Fax: +1 713 268 1062

Email: sales@jotron.com
Web: www.jotron.com

