

SEACOM

Solutions for coast radio systems



Schnoor Products/Systems:

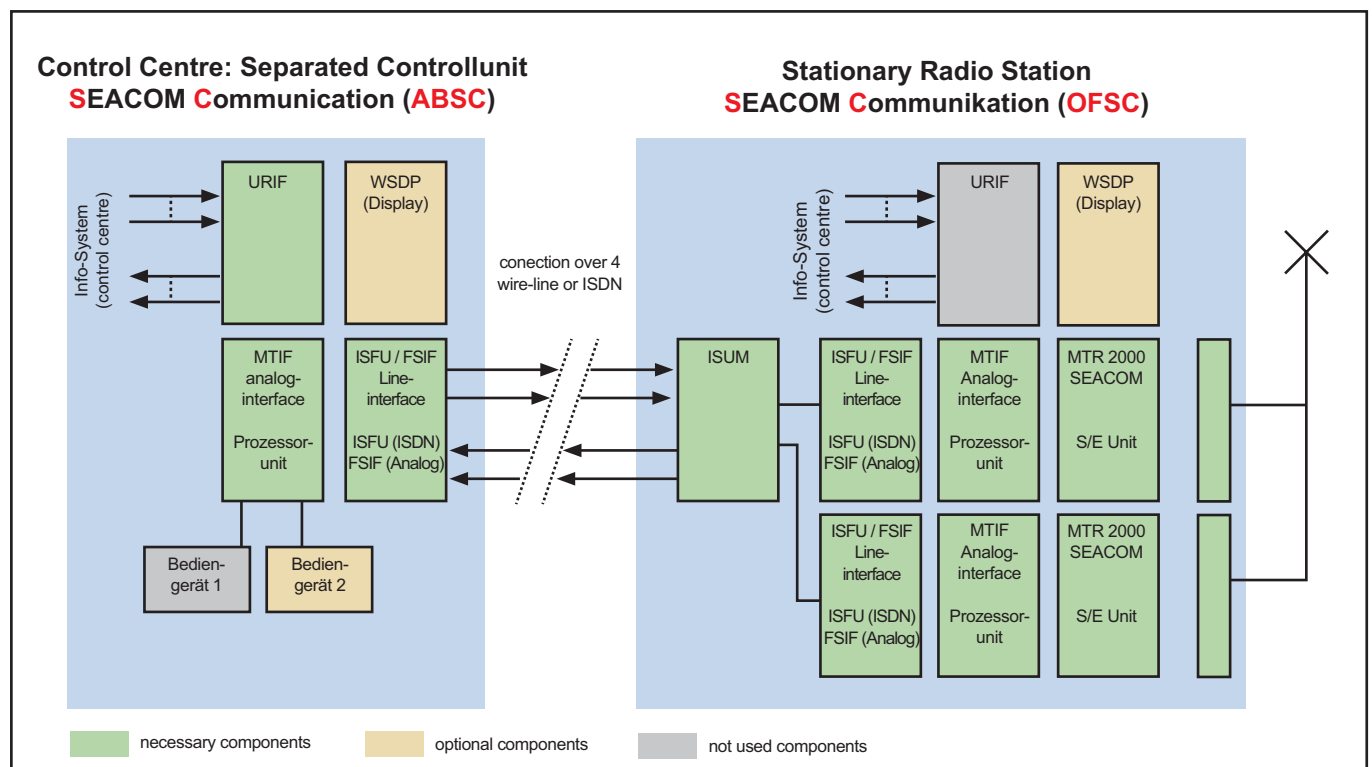
System Concept Schnoor Seacom Communication (SSC)

The Schnoor VHF radio system was developed to be used as a universal replacable stationary communication unit at coasts and inland waterways. The systems' modular structure allows a customer specific adaption to local restrictions and needs.

in this concept via interface-modules. It is also possible to operate in a parallel mode with several control-units and/or direct connections to the control centre.

This system enables the user to operate with multiple transmission/receive-units locally and/or remotely. Existing entities like information- or control-units of the user can be integrated

The following diagram shows an example of how a system can be built up.



Example of a radio station with a separated control unit, a local control unit, local interface to the info system and a main reserve-switch parallel feed

Stationary radio unit (OFSC)

The base version of our system cabinets allows the integration of max. 2 VHF radio units including the accessory units. Additionally it is possible to integrate a redundant power supply (UPS).

We can also provide bigger system cabinets for the integration of max. 4 transmission/receive-units. The system cabinets fulfill the requirements of the operator concerning the stability against environmental conditions.

It is also possible to integrate further units into this cabinet.



SEACOM SYSTEM

Information concerning the power supply

The power supply of the stationary unit can be built up with or without redundant power supply (UPS) depending on the customers' needs. The normal operation works with 230V/AC, 50Hz. In the case of the failure of the public power net the internal redundant power supply switches on and guarantees the operation. Alternatively this redundancy can be achieved by an external UPS-unit.

The power consumption of a system cabinet depends on the integrated equipment but is minimal 100 VA. The maximal power consumption (4 transmission/receive-units, highest load) is 800 VA.

One VHF-unit needs 20 VA in stand-by, if the transmitter is activated 100 VA.

Control unit UBG M

For the convenient information and operation into the SSC system Schnoor Industrieelektronik has developed the control unit UBG M. These units are integrated in standardized telephone housings and fulfill the requirements of the Intermas norm.

The base version of the UBG M consists of a keypad, a display, a loudspeaker and a microphone unit. One or more UBG Ms can be connected together depending on the customers' needs. It is also possible to

For the convenient information and operation into the SSC system Schnoor Industrieelektronik has developed the control unit UBGM. These units are integrated in standardized telephone housings and fulfill the requirements of the Intermas norm.

The base version of the UBGM consists of a keypad, a display, a loudspeaker and a microphone unit. One or more UBGMs can be connected together depending on the customers' needs. It is also possible to combine the UBGM with a multiple enquiry unit.



Control unit UBGM for hands-free operation

System components

Transmission/Receive-unit

Our stationary radio units are based on a modified standard product. They are built up as system components and fit in in 19" racks. These system components fulfill the requirements according to ETSI-standard EN301929-1 for stationary sea radio units and guarantee a reliable operation, even in longtime stress operation. This reliability is for example provided by the use of big cooling areas so that the heat can easily disappear.

This enables operation under normal, non-climatized conditions. Because the antenna unit is separated this unit can be used for several modes like simplex, duplex or a mix of both.

The whole cables are placed on the back of this unit which enables a clear wiring of the system cabinet.



Transmission / Receive unit

Service and Control Display WSDP

To display the channel settings and system messages the SSC-system has got the WSDP. The WSDP consists of an LCD-display and a keypad. As a standalone unit it is controlled by a microcontroller. With the WSDP it is possible to configure the system corresponding to the system structure.

The communication with other system components is done via Bosch-LAN. So we can keep a modular structure to adapt fastly to new specifications and conditions.



The monitoring unit WSDP can be integrated in 19" racks

Technical data

Radio cabinet SEACOM

Radio-system with interface-electronics to build up connections to several communication terminal devices. The components are integrated in the cabinet and the whole unit is connected to the power net over a main switch.

system cabinet	Typ PS 4000 H = 2000, B = 800, T = 600 Height of socket: 100 Height of cabinet: 2100
power supply	Voltage AC 230 V Frequency 50 Hz Powerconsumption: 800 W - Typ 1, 400 W - Typ 3 and Typ 4
safety category	IP55



Industrieelektronik - Nachrichtentechnik - Systemtechnik

Our fields of competence

- Radio systems (digital and analog)
- Inhouse radio systems for fire brigades and others
- Radio systems for tunnels
- Planning of radio nets
- Measuring of field strength and extension of radio nets
- Control centres for police and fire brigades and others like ADAC (Common German Car Club)
- Telematic-Systems (digital and analog)
- Systems for telecommunication and wide area traffic
- Control and monitor systems
- Data transmission
- Graphical user interfaces and PC-based control systems
- Storage programmable controls

What we can offer

- Planning and projecting
- Development of products (hardware and software)
- Sample and serial production
- Starting up and servicing
- Technical support
- Training