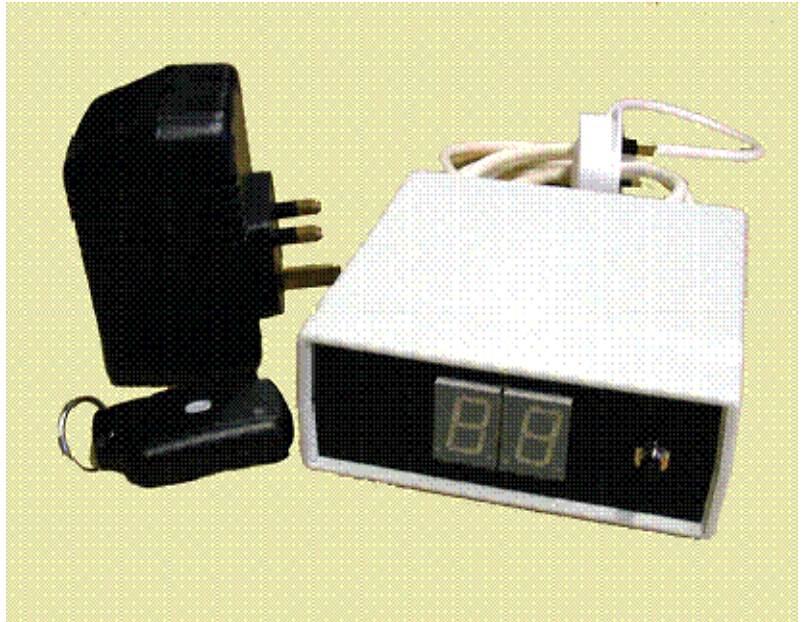


YACHT BUTLER

The Navtech Yacht Butler is based on the Xtra-Sense MSL MayDay system; an innovative and highly flexible means of calling for attention on a large yacht. It can also be applied to identify or track the location of on-board crew or guests when the fob transmitter is used.

The principal components of this wireless system simply plug into standard ac socket outlets. The 'Call' signal is transmitted through the fixed

ac power wiring from one location to another, within the vessel, using a powerful and reliable proprietary data transmission technology.



The system is especially suited to areas where wireless radio based signalling systems are unreliable or limited.

Key Features

- No new wiring or expensive installation is required.
- The signal transmitting and receiving units simply plug into an ac power point where they are required.
- Signalling through the existing ac power wiring provides an extremely reliable wired communication network, which is considerably more dependable than wireless radio communication
- Signalling can be achieved throughout a large yacht or ship which is fed by the same main power feed cables; the range is not affected by the factors that limit radio signals e.g. bulkheads,
- Two types of system provide either up to 15, or up to 99 zones or channels.
- Signals are coded to prevent false alarms from electrical interference on the mains power wiring.



15 Channel / Zone System

The basic Butler 15 system is designed primarily for small to medium size yachts, where up to 15 zones are adequate.

99 Channel / Zone System

The Butler 99 system is a more sophisticated product designed primarily for longer range signalling in the larger yachts and cruise ships, typically requiring more than 15 zones.

The Navtech Yacht Butler System consists of:

'Butler' Call Button

A small radio transmitter unit housed in a polished wooded* case for placing on a dining table, cocktail bar or similar, the button is pressed to initiate the request for attention. Pressing the button sends a trigger out to the Transponder unit in the vicinity of the Butler Button; a short range devices that will typically work up to approximately 10m, depending upon local conditions.

Key Fob Trigger

The Key Fob Trigger is a small radio transmitter unit carried by personnel, which is used to initiate the request for attention. Pressing the key fob button sends a trigger out to the Transponder unit in the vicinity. These are short range devices, which will typically work up to approximately 10m depending upon the environment.

Transponder

Transponder units within the range of the push button units will receive the trigger signal, but are programmed to react to specific Butler units. If the Transponder is programmed to react to the trigger, the Transponder beeps to acknowledge receipt of the call and then sends its own MSL coded signal into the ac wiring.

The coded MSL signal transmitted includes the identity code of the Transponder sending the signal. By knowing the location of the Transponder, the location of the triggering signal can be determined.



NAVTECH SYSTEMS Ltd

Sulby, Nr. Welford, Northamptonshire. NN6 6EZ. UK.
Telephone: +44 (0)1858 880 857 Fax: +44 (0)1858 880 859
sales@navtechsystems.co.uk www.navtechsystems.co.uk

Yacht Butler Display Receivers

The Butler Receiver unit monitors the ac wiring for coded signals from any Transponder. When a signal is detected, the 'Receiver is triggered to decode the signal and indicate the identity of the Transponder that sent the signal.

Butler 15 System

The basic Model 15 system comprises up to 16 Transponder codes and a Display Receiver with a two digit display to illustrate Transponder codes from 0 - 15. (To avoid confusion, the use of code 0 is not used, thus the system is generally limited to 15 codes or zones). In addition to the display, an internal sounder activates to draw attention to the alarm. A single change over relay provides an option to trigger a third party device.

Butler 99 System

The Model 99 system is a high performance system designed for signalling over larger yachts and ships. It offers up to 100 Transponder codes and a Display Receiver with a two digit display to illustrate Transponder codes from 0 - 99. (To avoid confusion, the use of code 0 is not used, thus the system is generally limited to 99 codes or zones).

A key feature of this system is the facility to prevent simultaneous Transponder signals from blocking or interfering with one another.

A large yacht on a single distribution panel can be covered by the 99 Zone System.

By the installation of additional but simple wiring, the system is also capable of operation on yachts which have separate generators and switch panels.

Specification

Key Fob button:

Internal battery, single push button
Range approx 10 meters
Size - approx 60mm X 45mm X 15mm

Butler Call:

Internal battery, single push button
Range approx 10 meters
Size - approx 90 mm diameter X 60 mm high

Butler Call -

Finished in a choice of Polished Rosewood, Mahogany, Walnut or similar hardwoods

Transponder:-

Internal Power Supply :
Output RF: 12v to 20v Peak-Peak
Output impedance : Low to match N & E
Data Rate : 20 BPS
Modulation : FM
Deviation : 5Khz
Frequency Band : 80Khz to 185 Khz
Temp : -10 to +60 Deg C
Harmonic Content : Better than -40db

Receiver:

Internal Power Supply
Supply current : 100mA
Input Sensitivity : <1mV in typ noisy env'.
Data Rate : 20 BPS
Bandwidth : 27hz
Rejection : 1khz 40db, 10khz 65db
F1/F2 balance : 1db
Temp : -10 to +60 Deg C
Input Frequency : 85 to 185 Khz



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