

PRODUCT GUIDE

TC4000

MARINE TALKBACK SYSTEM

SUPERB AUDIO QUALITY

TALKBACK MODE

PEER-TO-PEER MODE

'TALK' INDICATOR ON ALL SUBSTATIONS

'PRIVACY' FUNCTION ON CABIN STATIONS

WATERTIGHT STATIONS FOR OPEN DECKS

HEADSET STATIONS FOR NOISY AREAS

Talk-Back Mode

A talk-back system offers communication between one or more Master stations and a number of Substations.

Master stations can call other Master stations or any of the substations by selecting the appropriate station button on the Master panel.

Substations call the Master station(s) by pressing the 'Call' button. Once accepted by the Master, the station enjoys hands free communication with the Master.

The Master speaks to all active stations by pressing the 'Talk' button



TC4008 8-Channel Master Station

Peer-To-Peer Mode

The system can operate in Peer-to-Peer mode without the need for a Master station, although one station is usually given the role of Master.

All stations are permanently active and any station can talk to all the others by pressing the 'Talk' button. No station has priority over any of the others



TC4001 Internal Cabin Station

Privacy

In talk-back mode an active TC4001 station can prevent their conversation from being heard by pressing the 'Mute' button.

This prevents outgoing audio but does not stop incoming audio. The Privacy function can be overridden temporarily by pressing the 'Talk' button.



TC4002 Internal/External Horn Station

Monitor Station Mode

In talk-back mode, a station can also be set to operate as a monitor only. This allows the Master or other Substations in a group to listen to the audio from that station at all times, even when not selected on the Master.



TC4003 Headset Station

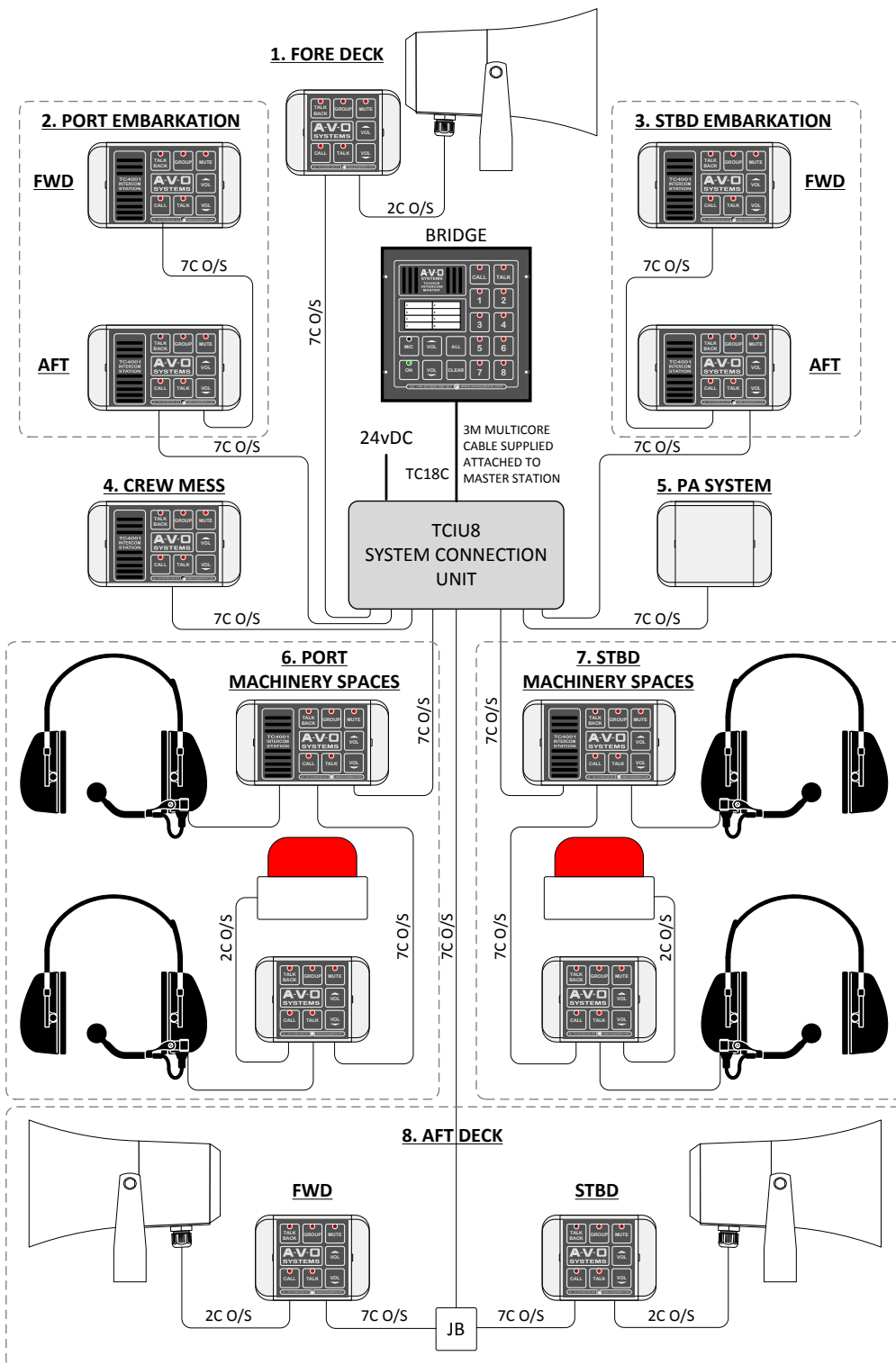


Wootton
Isle of Wight
UK PO33 4RN

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

EXAMPLE SYSTEM CONNECTION DIAGRAM

This example system schematic uses a mixture of the station version options available and shows how you can communicate with more than eight positions from one TC4008 8-way Master Station.



On the Fore Deck, we have an external station (TC4002), with a 10 watt horn (HS810), which also acts as a microphone for return speech from the deck.

At each of the Embarkation Doors we have a TC4001 unit, with integral speaker and microphone. On each side of the vessel, the cable from the forward unit is 'looped-through' to the aft door, where another TC4001 is fitted, so both are on the same channel.

Another TC4001 is located in the Crew Mess.

A TC4005 PA Interface unit is fitted to enable announcements to be made from the Bridge via the PA system speakers in the passenger areas.

This imaginary vessel is a catamaran, so there are two Machinery Spaces. A TC4004 with a Headset Socket is fitted at the forward position of each, possibly in the Engine Room. A TC4004 was chosen here so that the integral speaker can operate as a paging device, when the engines are not running and the area is relatively quiet, therefore the engineer can communicate with the Bridge without using the headset. At the aft position, we have a TC4003, as no speaker was required in this area. A sounder / beacon (SB1) can be attached to either station and mounted centrally in the area, to attract the engineer's attention.

Finally, there are two TC4002 stations and re-entrant horns on the Aft Deck, connected in parallel on one channel.

All connections are made at the TCIU8 System Connection Unit.



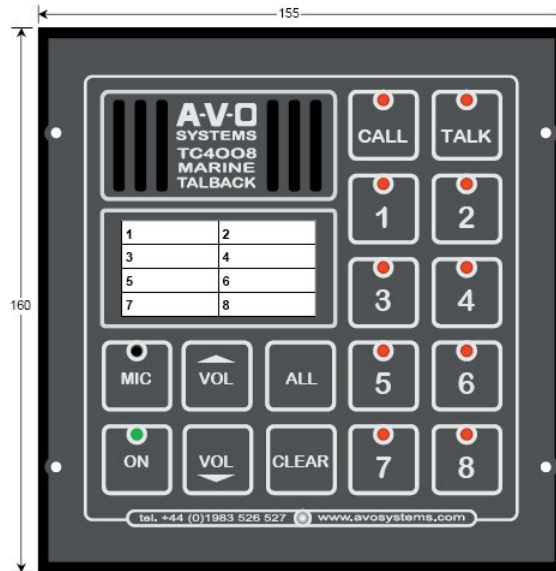
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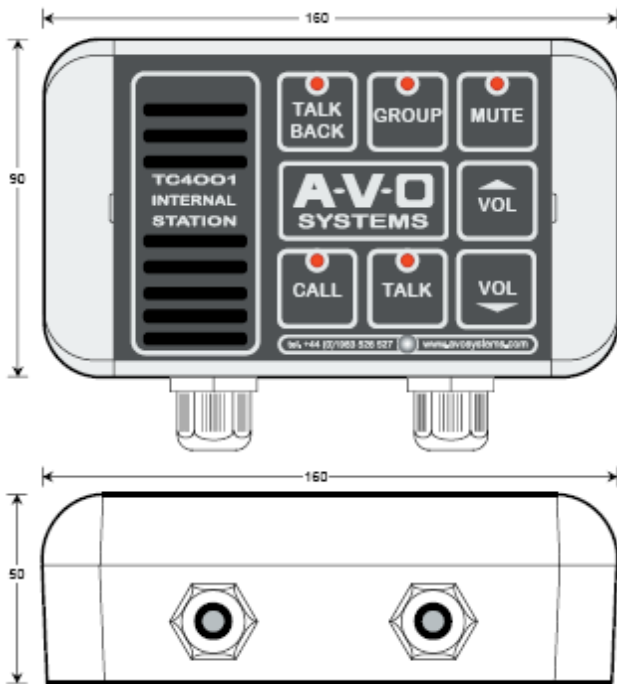
TECHNICAL SPECIFICATIONS

TC4008 8-Channel Master Station

- Integral mic and speaker
- Automatic LED brightness
- Select all function
- Clear all function
- Group call function
- Touch volume control
- Internal amplifier

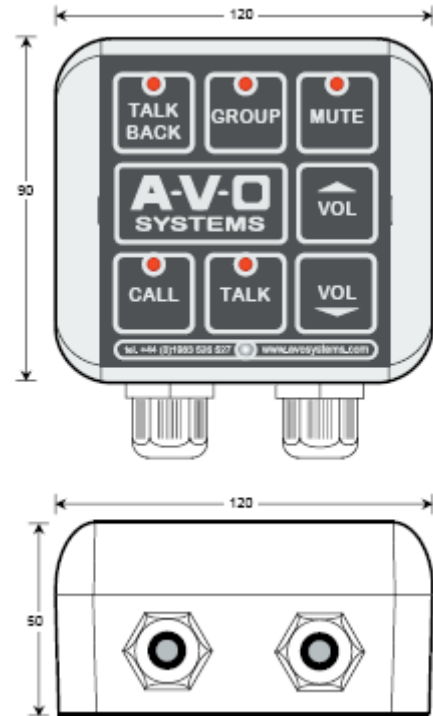


- Optional fist mic
- Optional external speaker
- Access master station from Bridge Wings
- Bridge controlled ship-wide communications
- 12v DC operation
- Current consumption:
 - Idle ~ 300mA
 - Working ~ 600mA



TC4001/TC4004
Internal Cabin/Engine Room Station

- Integral mic and speaker
- Internal amplifier
- TC4004 unit modified for engine room head set allowing voice comms when engine off
- 12V DC operation
- Current consumption:
 - Idle ~ 100mA
 - Working ~ 300mA



TC4002 / TC4003
External Deck Station / Engine Room Station

- IP66 rating
- 10W Re-entrant horn available for deck use
- Heavy-duty headset with noise-cancelling mic for optimal engine room performance
- Sounder / beacon option
- 12V DV operation
- Current consumption:
 - Idle ~ 100mA
 - Working ~ 300mA (Headset)
 - Working ~ 700mA (Horn)



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