



## Alphaconnect P421 watertight communication station

Fully DNV type approved full featured watertight telephone for engine room, galley, deck stations etc. Display, keyboard with dimmable red backlight, 10W amplifier for loud and clear voice, digital processed handsfree speaking, single key calls for easy calling of Bridge and ECR. Connections for handset, headset, horn speaker and rotary light. Protection class IP65.

### Description

The P421 is a heavy duty watertight telephone for engine room spaces, galley and even for deck mounting. It can be hands free operated, and the hands free function is implemented using a unique digital signal processing technology.

It can be used for all PABX systems using plain analogue extension lines, but in conjunction with the AlphaConnect 48 / 128 systems, all the unique features are enabled.

The display and keyboard have a red backlight with an automatic dimmer function sensing the ambient light level. The keyboard has a minimum number of keys that allows for single key calls to often used spaces such as Bridge, ECR, STGR etc.

The telephone allows for direct calls, where communication can be established without any hands on by the called party. When used with the AlphaConnect 48 / 128 systems, the telephone receives public address calls and alarm calls.

An optional handset can be connected for low-speaking conversations, and when the telephone is used in noisy areas, a headset with boom microphone and external PTT can be handled. An external hook/PTT input allows for using a foot operated switch to answer calls.

A 10W amplifier is driving an external speaker or loudhailer giving more than 110dB loud and clear sound pressure.

A relay contact-set is available for driving rotary lights and horns. The P421 has a watertight design class IP65, operating from -20 to 70 dgs C, and conforms to the IEC60945 standard for maritime equipment.

The P421 is powered from 24V DC which is galvanic isolated, as is the 0-24V dimmer input.



# ALPHATRON

Alphatron Marine Communications

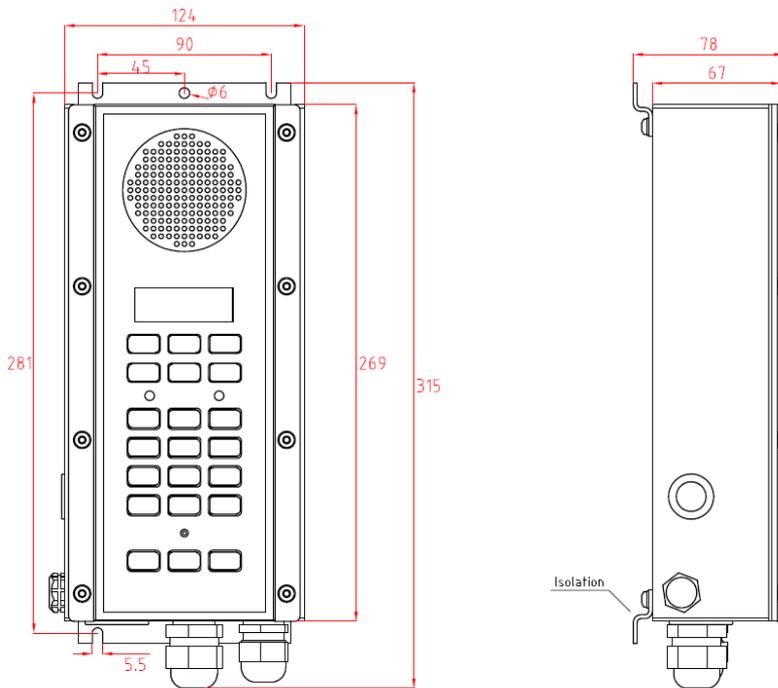
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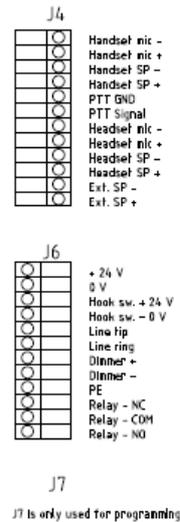


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## Dimensional drawings and connections



## CONNECTIONS

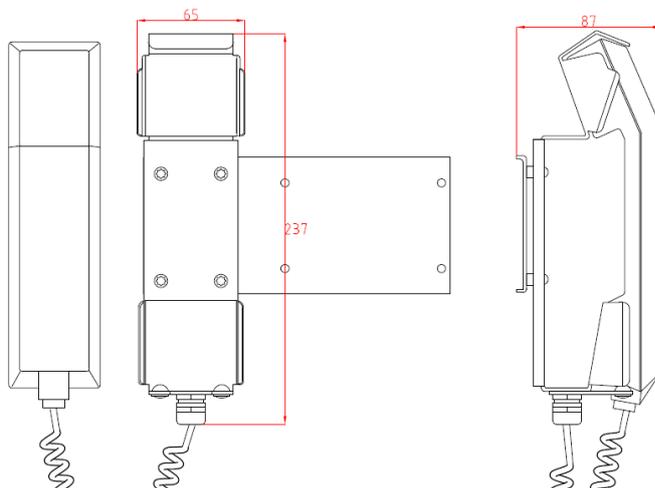


## Specifications

Power	18-32V DC
Power consumption	max 15W
Operating temperature	-20—70 dgs C
Protection class	IP65
Telephone line	48V DC, 60V AC ring
Caller number identification	FSK
Relay output	1A@30V,
250mA@230V	
Sound pressure	> 85 dB 1m

Mounting ensures isolation between ship's hull and aluminium telephone housing.  
Cable shields should be terminated on the PE terminal inside

## Optional watertight handset IP66



## Connections:

- Speaker - Yellow
- Speaker + Green
- Microphone - Black
- Microphone + Red
- Switch - Blue
- Switch + White