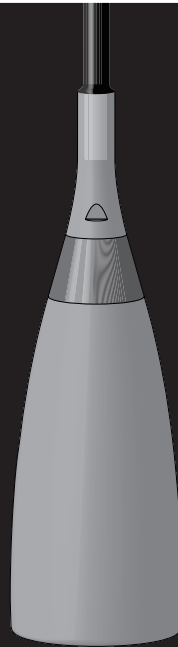


## SAILOR® VPA 30 ACTIVE OMNI-DIRECTIONAL ANTENNA

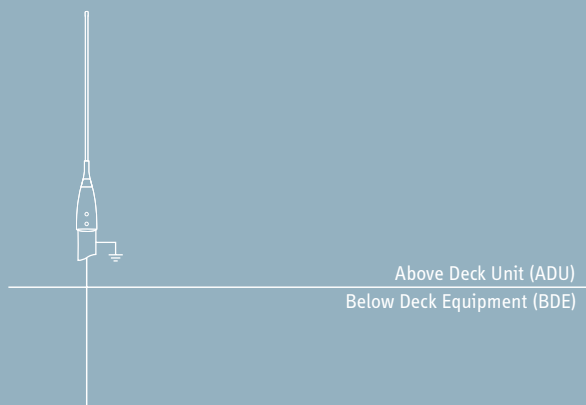


**The SAILOR VPA 30 is an active omni-directional antenna optimized for AM reception from 0.1-30 MHz with vertical polarisation.**

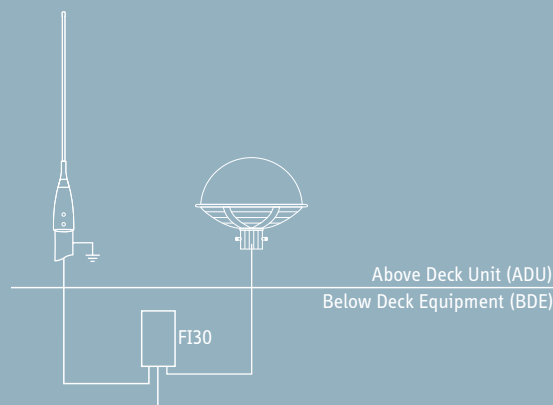
The electronics performs a two stage impedance transformation between the E-field at the rod and the 75 ohm cable. A Ka value of 0.16 means that at all frequencies, the antenna is as efficient as a full size dipole. The design of the complete antenna is made in such a way, that for most of the listening time (day-night and seasonal variations) the external, atmospheric noise, masks the noise generated by the electronics. The design is fine tuned in this respect and neither rod diameter nor rod length should be altered.

Power is fed to the antenna via the coaxial cable, which floats with respect to ground at the antenna end, except for a 3nF/3 kV decoupling capacitor between the coax shield and body. The circuit has adequate protection against lightning. There are no serviceable parts inside.

## SAILOR VPA 30 (ONLY) FOR AM-FM RECEPTION



## SAILOR VPA 30 & MARK 30ALC (COMBINATION) FOR AM-FM-TV RECEPTION



### AM

Frequency range	0.1-30 MHz
Output impedance	75 ohm
Return loss	>17 dB
IP2 in	1250 V/m
IP2 out	+60 dBm
IP3 in	150 V/m
IP3 out	+38 dBm
Antenna factor Ka	0.16
Antenna noise	External noise limited (50% probability according to CISPR 322)

### FM

Frequency range	68-110 MHz
Output impedance	75 ohm
Return loss	8 dB
Antenna gain	Typ 3 dBi

### AM-FM

Overall frequency range	0.1-110 MHz
Polarization	Vertical

### PACKAGE DETAILS

Item no	Type of Package	N.Weight (kg)	G.Weight (kg)	Dimensions, Primary Pack (LxWxH cm/Vol.m <sup>3</sup> )
201080	Carton	3.5	4.0	86x16x16 cm/0.022 m <sup>3</sup>
201082	Carton	4.5	5.0	86x16x16 cm/0.022 m <sup>3</sup>

### POWER & ENVIRONMENT

Supply voltage	15 VDC ±17%
Supply current	115 mA ±10
Temperature range	-40-+70 °C

### MECHANICAL

Coaxial connector	Female BNC 75 ohm
Rod length	850 mm
Rod diameter	10 mm
Base height	200 mm
Base max diameter	84 mm
Mounting tube diameter	50 mm
Max. material thickness with 50 mm tube is 6 mm	
Net weight	1,65 kg
Protection	IP 68, housing only

### ORDERING INFORMATION

Item no	Description
201080	SAILOR VPA 30 w/ 25m Coaxial cable
201082	SAILOR VPA 30 w/ 50m Coaxial cable