

# GPS 2000...

Active Receiving Antenna for the 1575 MHz NAVSTAR GPS Satellite Navigational System for Maritime and Landmobile Use

## DESCRIPTION

- Flat-pack GPS-antenna for fixed installations.
- Full hemispherical coverage.
- Built-in high gain, low noise amplifier.
- Right-hand circular polarisation (RHCP).
- Available in black or white, see model survey.
- 5 V supply voltage (3 V respectively 12 V available on request).
- DC supply via RF-connector.
- EMC tested to IEC 801 and IEC 255.
- Provided with FME (male) or TNC (female) connector, see model survey.
- Wide range of FME-accessories available.

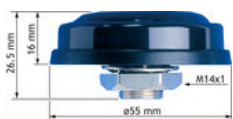
### GPS 2000B...



### GPS 2000W...



### FME-VERSION



### TNC-VERSION



## MOUNTING

The gasket should be entirely supported by the mounting plane.

## MODEL SURVEY

COLOUR	CONNECTOR	
	FME	TNC
BLACK	GPS 2000B-FME	GPS 2000B-TNC
WHITE	GPS 2000W-FME	GPS 2000W-TNC

## SPECIFICATIONS

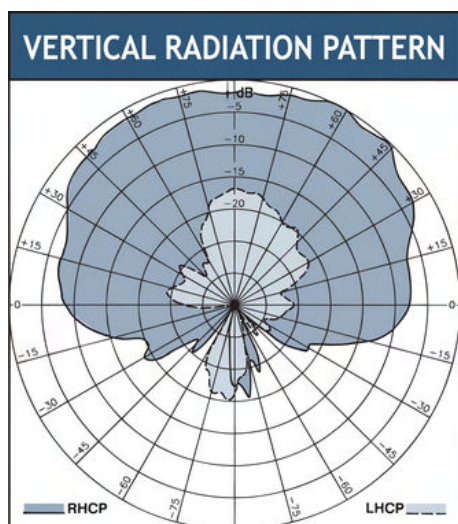
ELECTRICAL General Specifications	
MODEL	GPS 2000...
ANTENNA TYPE	Active patch antenna
FREQUENCY	1575 MHz
IMPEDANCE	Nom. 50 Ω
POLARISATION	Circular right-hand
COVERAGE	Hemispherical
GAIN (in axial direction)	28 dBi (typ.)
CROSSPOLARISATION ATT.	> 10 dB (typ.)
SELECTIVITY	> 45 dB down @ ± 45 MHz
Built-in Amplifier	
GAIN	> 30 dB (typ.)
NOISE FIGURE	< 1 dB (typ.)
1 dB COMPRESSION POINT	Approx. +7 dBm
SWR (output)	< 2.0
SUPPLY VOLTAGE	5 ± 0.5 VDC (3 V respectively 12 V available on request)
CURRENT CONSUMPTION	Approx. 20 mA
MECHANICAL	
MOUNTING	14 mm dia. hole
MOUNTING THICKN.	0.7 → 4.5 mm
MATERIALS	Cu-nite brass, seawater resistant Lexan
COLOUR	Black or white, see model survey
TEMP. RANGE	-50° C → +70° C
CONNECTOR	FME (male) or TNC (female), see model survey
RECOMMENDED INSTALL. TORQUE	8.5 ± 1 Nm
HEIGHT	16 mm
OUTER HEIGHT	26.5 mm total (FME) 38 mm total (TNC)
WIDTH/LENGTH	ø55 mm
WEIGHT	Approx. 120 g

## FME-SYSTEM ACCESSORIES

FME-CABLES		FME-CONNECTORS	
LENGTH	TYPE NO.	CONNECTOR	ORDER NO.
1 m	1 m FME	FME-FME	FME-FME
2 m	2 m FME	Prolongation	FMEP
3 m	3 m FME	N	FME-N
4 m	4 m FME	FSMA	FME-FSMA
5 m	5 m FME	BNC	FME-BNC
6 m	6 m FME	TNC	FME.TNC
4 m white	4 m FME-white	UHF	FME-UHF
6 m white	6 m FME-white	Mini-UHF	FME-MUHF
12 m white	12 m FME-white	Elbow-MUHF	FME-EMUHF
18 m white	18 m FME-white	Elbow-BNC	FME-EBNC
		Elbow-TNC	FME-ETNC
		SMA	FME-SMA

For further information about other types of FME-cables please compare the cable data sheets under accessories in our catalogue.

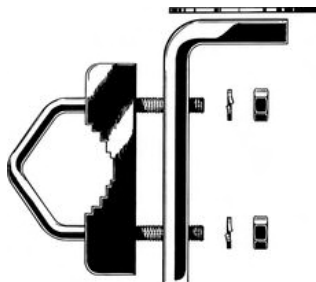
## RADIATION PATTERN



Do not use sealer on rubber gasket or other places.

## ACCESSORIES

Stainless steel angle bracket for fixation of GPS 2000... antennas. (To be ordered separately)



PROCOM A/S reserve the right to amend specifications without prior notice.

16/01/2009