

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.

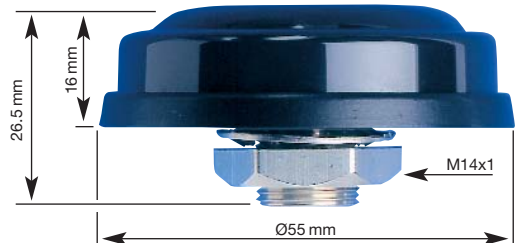
MODEL SURVEY:

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

GPS 2000B ...



FME-VERSION



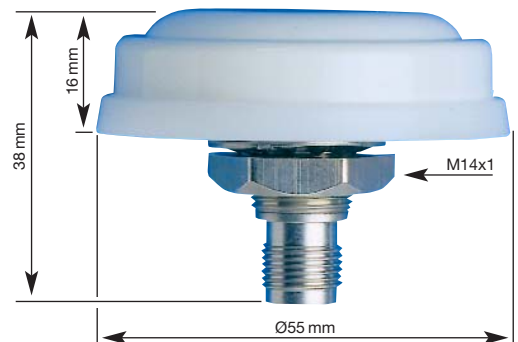
MOUNTING:

The gasket should be entirely supported by the mounting plane.

GPS 2000W ...



TNC-VERSION

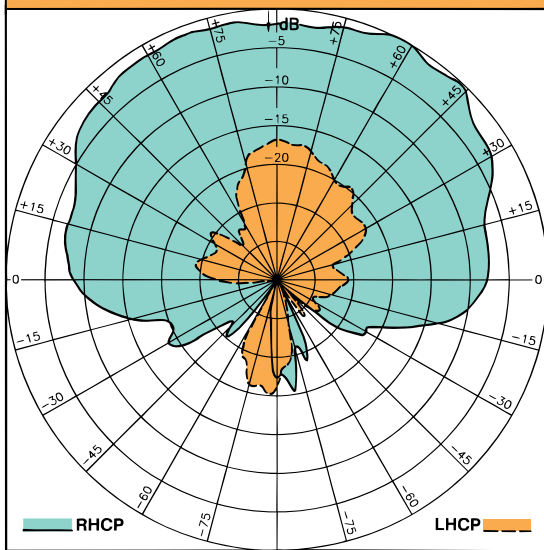


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VERTICAL RADIATION PATTERN



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.)
CROSS-POLARISATION ATT.	> 10 dB (typ.)

Built-in Amplifier

GAIN	> 30 dB (typ.)
NOISE FIGURE	≤ 1 dB (typ.)
1 dB COMP. POINT	Approx. +7 dBm
SELECTIVITY	> 45 dB down at ± 45 MHz
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 Cu-nite ZnAl ₂ Cu Lexan
COLOUR	Black or white, see model survey
TEMP. RANGE	-30° 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

LENGTH	TYPE NO.
1m	1m FME
2m	2m FME
3m	3m FME
4m	4m FME
5m	5m FME
6m	6m FME
4m white	4m FME-white
6m white	6m FME-white
12m white	12m FME-white
18m white	18m FME-white

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

FME-SYSTEM ACCESSORIES

FME-CONNECTORS

CONNECTOR	ORDER NO.
FME-FME	FME-FME
Prolongation	FMEP
N	FME-N
FSMA	FME-FSMA
BNC	FME-BNC
TNC	FME-TNC
UHF	FME-UHF
Mini-UHF	FME-MUHF
Elbow-MUHF	FME-EMUHF
Elbow-BNC	FME-EBNC
Elbow-TNC	FME-ETNC
SMA	FME-SMA

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)

