



GPS 2000 Discontinued and replaced by the GNSS 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 polarization (RHCP).
- Available in black or white, see model survey.
- 5 V or 3 V supply voltage (12 V available on request).
- DC supply via RF-connector.
- EMC tested to IEC 801 and IEC 255.
- Provided with FME-male, TNC-female connector, or models with permanently attached 0.15 m cable with FME-male connector, see model survey.
- ECE R118.02 approved cable.
- Wide range of FME-accessories available.

SPECIFICATION

ELECTRICAL

Model	GPS 2000
Frequency	1575 MHz
Antenna Type	Active patch antenna
Polarisation	Circular
Pattern Type	Hemispherical
Impedance	50 Ω
Axial Gain	28 dBi (typ.)
Cross Polar Attenuation	> 10 dB (typ.)
Selectivity	> 45 dB down @ ± 45 MHz

ENVIRONMENTAL

Operating temperature range	-50 °C to +70 °C
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GPS ANTENNA

P1dB (GPS Amplifier)	Approx. +7 dBm
Noise Figure (GPS Amplifier)	< 1 dB (typ.)
Gain (GPS Amplifier)	> 30 dB (typ.)
VSWR (GPS Amplifier)	< 2.0:1
Current Consumption (GPS Amplifier)	0.02 mA

MECHANICAL

Compliance	ECE R118.02 approved cable
Connection(s)	FME male, TNC female or models with 0.15 m RG 316 permanently attached cable with FME (male) connector, see ordering designations
Materials	Cu-nite brass, seawater resistant Lexan
Installation Torque	8.5 ±1 Nm
Colour	Black or white, see ordering designations
Historic Brand	Amphenol Procom
Dimensions	55 mm dia.
Height	16 mm / 0.63 in. Outer height: 26.5 mm / 1.04 in. total (FME) 38 mm / 1.50 in. total (TNC) 27 mm / 1.22 in. total for P0.15 models
Weight	Approx. 0.12 kg / 0.26 lb.
Mounting	14 mm / 0.55 in. dia. hole
Mounting Plate Thickness	0.7 – 4.5 mm / 0.03 – 0.18 in.

POWER SUPPLY

Voltage	5 ± 0.5 V DC or 3 ± 0.3 V DC (12 V available on request)
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ORDERING CODES

Model	Product No.	Additional Information
GPS 2000B-FME-5V	112000026	Black
GPS 2000W-FME-3V	112000023	White
GPS 2000B-TNC-5V	112000028	Black
GPS 2000B-TNC-3V	112000032	Black

ADDITIONAL INFORMATION

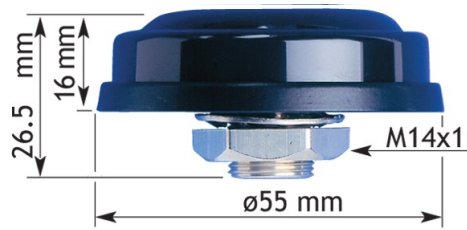
FME-System Accessories – Note

For further information about other types of FME-cables and FME-connectors, please compare the cable and connector data sheets under accessories.

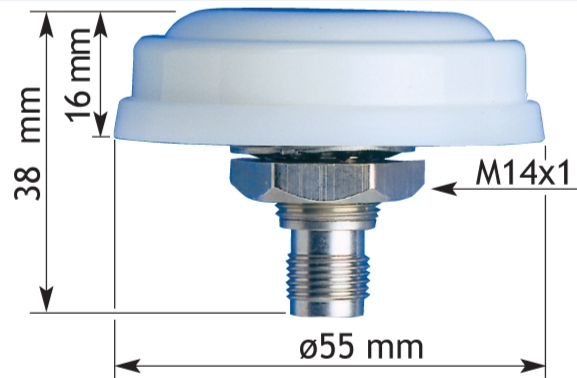
GPS 2000B-P0.15 and GPS 2000W-P0.15



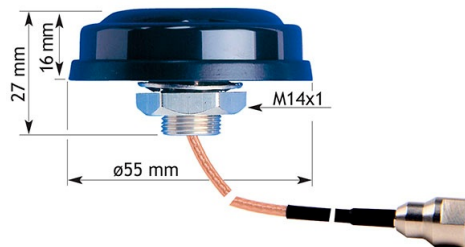
FME-Version



TNC-Version



Models with permanently attached cable



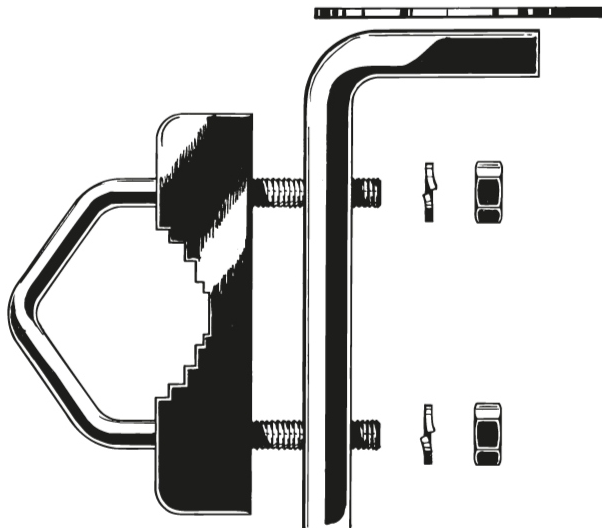
Mounting

The gasket should be entirely supported by the mounting plane.

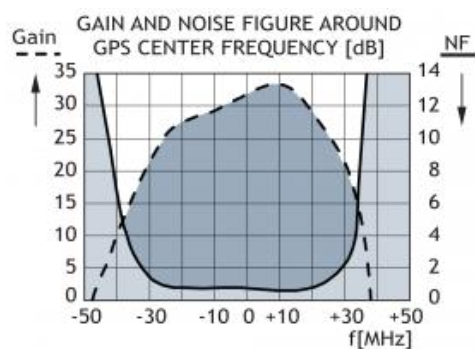
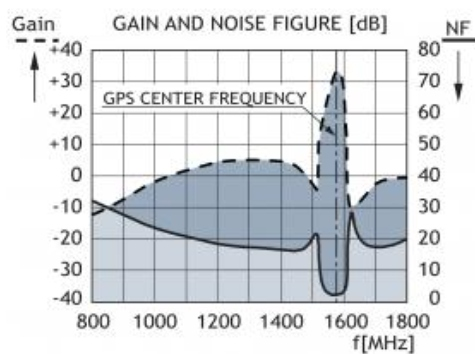
Do not use sealer on rubber gasket or other places.

Accessories

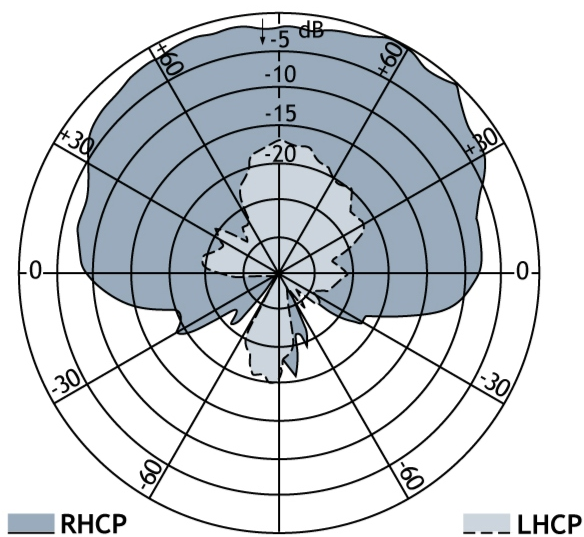
Stainless steel angle bracket for fixation of GPS 2000... antennas. (To be ordered separately: MB 2000 clamp). Not recommended for GPS 2000...-P0.15 types.



Typical response curves



Vertical Radiation Pattern



EU and UK Declaration of Conformity

Hereby Amphenol Procom declare that the product type GPS 2000 is in compliance with EU Directive 2014/53/EU and the UK Radio Equipment Regulations 2017 (S.I. 2017 No. 1206).

The full text of the Declaration of Conformity is available at:

<https://s3.us-west-2.amazonaws.com/catsy.1080/Declaration-of-Conformity-GPS2000.pdf>

