



GNSS 2000

Active Receiving Antenna for the GPS, GLONASS, BEIDOU and GALILEO



DESCRIPTION

- Flat-pack GNSS-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.
- 3 V – 15 V supply voltage.
- DC supply via RF-connector.
- EMC tested acc. to EN 301 489-1.
- ECE R118.02 approved cable.

SPECIFICATION

Last Update: 13/10/2026 06:54 AM

ELECTRICAL

Model	GNSS 2000
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ENVIRONMENTAL

Operating temperature range	-50 °C to +70 °C
Ingress Protection	IP69
Impact Protection	IK10

GNSS ANTENNA

Cross Polar Discrimination (GNSS)	> 10 dB (typ.)
Frequency (GNSS)	1559 – 1609 MHz (GPS L1, Glonass, Beidou and Galileo)
Polarisation (GNSS)	RH Circular
Impedance (GNSS)	50 Ω

GNSS LNA

Gain (GNSS LNA)	29 dB ±3 dB
Noise Figure (GNSS LNA)	< 3.5 dB : 1559 - 1610 MHz Typ. 2.0 dB @ 1575 MHz
Attenuation Out Of Band (GNSS LNA)	> 25 dB, 0 – 1525 MHz > 25 dB, 1640 – 3000 MHz
P1dB (GNSS LNA)	> 6 dBm
VSWR (output) (GNSS LNA)	< 2.0:1
Supply Voltage (GNSS LNA)	3 – 15 V DC
Current Consumption (GNSS LNA)	20 mA

MECHANICAL

Compliance	ECE R118.02 approved cable
Connection(s)	0.3 m RG 316 permanently attached cable with Different connector available, see nomenclature.
Materials	Cu-nite brass, seawater resistant Lexan
Installation Torque	8.5 ±1 Nm
Colour	Black or white, see ordering designations
Dimensions	55 mm dia.
Height	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.

ORDERING CODES

MODEL	PRODUCT NO.	ADDITIONAL INFORMATION
GNSS 2000-B-S	112000103	Black, 1xGNSS w. 0.3m SMA(m)
GNSS 2000-W-S	112000104	White, 1xGNSS w. 0.3m SMA(m)
GNSS 2000-B-F	112000105	Black, 1xGNSS w. 0.3m FME(m)
GNSS 2000-W-F	112000106	White, 1xGNSS w. 0.3m FME(m)
GNSS 2000-B-FC	Contact for availability (Ref: 122)	Black, 1xGNSS w. FAKRA C(f)
GNSS 2000-W-FC	Contact for availability (Ref: 123)	White, 1xGNSS w. FAKRA C(f)
GNSS 2000-B-P5-S	112000109	Black, 1xGNSS w. 0.3m SMA(m), 5m AP195 Extension cable
GNSS 2000-W-P5-S	112000110	White, 1xGNSS w. 0.3m SMA(m), 5m AP195 Extension cable
GNSS 2000-B-P5-F	112000111	Black, 1xGNSS w. 0.3m FME(m), 5m AP195 Extension cable
GNSS 2000-W-P5-F	112000112	White, 1xGNSS w. 0.3m FME(m), 5m AP195 Extension cable
GNSS 2000-B-P5-FC	Contact for availability (Ref: 124)	Black, 1xGNSS w. 0,3m FAKRA C(f), 5m AP195 Extension cable
GNSS 2000-W-P5-FC	Contact for availability (Ref: 125)	White, 1xGNSS w. 0,3m FAKRA C(f), 5m AP195 Extension cable

ADDITIONAL INFORMATION

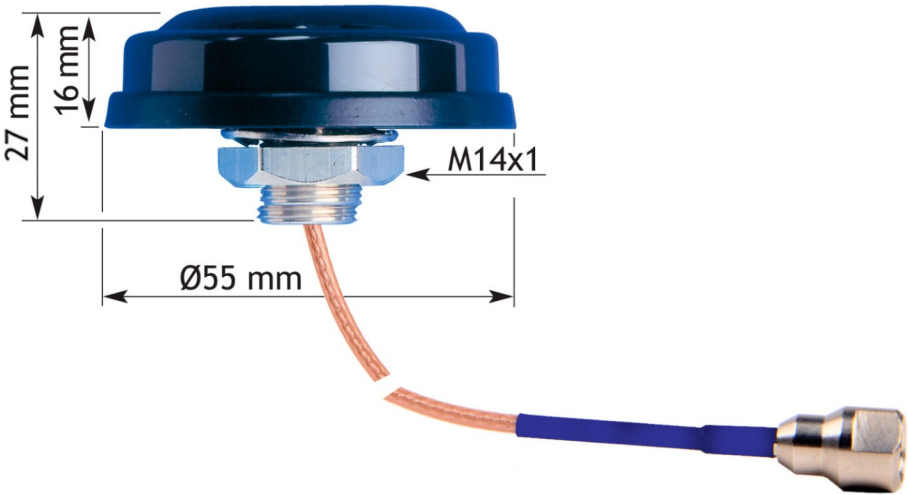
FME-System Accessories – Note

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

GNSS 2000 model



Models with permanently attached cable



Mounting

The gasket should be entirely supported by the mounting plane.

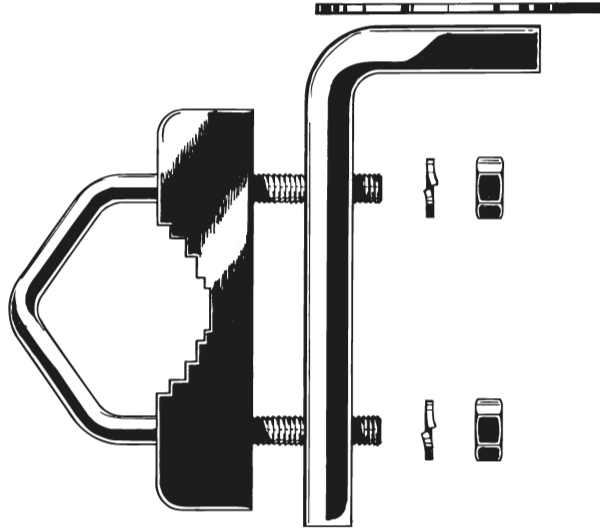
Do not use sealer on rubber gasket or other places.

Nomenclature

Model Name	Cover color	Cable length	Connectors
GNSS 2000	-W (White) -B (Black)	Blank (approx. 0.3 m / 1 ft. cable length) -P5 (5 m / 16.4 ft. cable length)	-S (SMA-M) -FME (FME-M) -FAKRA (on request)

Accessories

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



EU and UK Declaration of Conformity

Hereby Amphenol Procom declare that the product type GNSS 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-GNSS 2000.pdf>

