

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.



SPECIFICATIONS

Electrical	
Model	GNSS 2000
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.
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
Environmental	
Operating temperature range	-50 °C to +70 °C
Ingress Protection	IP69
Impact Protection	IK10

ORDERING

Model	Product No.	Description
GNSS 2000-B-S	112000103	Black, 1xGNSS w. SMA(m)
GNSS 2000-W-S	112000104	White, 1xGNSS w. SMA(m)
GNSS 2000-B-F	112000105	Black, 1xGNSS w. FME(m)
GNSS 2000-W-F	112000106	White, 1xGNSS w. FME(m)
GNSS 2000-B-FC	Contact for availability	Black, 1xGNSS w. FAKRA C(f)
GNSS 2000-W-FC	Contact for availability	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	Black, 1xGNSS w. 0,3m FAKRA C(f), 5m AP195 Extension cable
GNSS 2000-W-P5-FC	Contact for availability	White, 1xGNSS w. 0,3m FAKRA C(f), 5m AP195 Extension cable
Accessories FME-Cables		
1m RG58 FME(f) - FME(f)	130000437	1m RG58 FME(f) - FME(f)
2m RG58 FME(f) - FME(f)	130000447	2m RG58 FME(f) - FME(f)
3m RG58 FME(f) - FME(f)	130000457	3m RG58 FME(f) - FME(f)
4m RG58 FME(f) - FME(f)	130000466	4m RG58 FME(f) - FME(f)
5m RG58 FME(f) - FME(f)	130000474	5m RG58 FME(f) - FME(f)
6m RG58 FME(f) - FME(f)	130000483	6m RG58 FME(f) - FME(f)
1m RG58 FME(f) - RA - FME(f)	130000526	1m RG58 FME(f) - RA - FME(f)
2m RG58 FME(f) - RA - FME(f)	130000527	2m RG58 FME(f) - RA - FME(f)
3m RG58 FME(f) - RA - FME(f)	130000528	3m RG58 FME(f) - RA - FME(f)
4m RG58 FME(f) - RA - FME(f)	130000529	4m RG58 FME(f) - RA - FME(f)
5m RG58 FME(f) - RA - FME(f)	130000530	5m RG58 FME(f) - RA - FME(f)
6m RG58 FME(f) - RA - FME(f)	130000531	6m RG58 FME(f) - RA - FME(f)
4m RG58W FME(f) - FME(f)	110000064	4m RG58W FME(f) - FME(f)
6m RG58W FME(f) - FME(f)	110000066	6m RG58W FME(f) - FME(f)
12m RG58W FME(f) - FME(f)	110000068	12m RG58W FME(f) - FME(f)
18m RG58W FME(f) - FME(f)	110000069	18m RG58W FME(f) - FME(f)
Accessories FME-Connectors		
FME(f) - FME(f)	130000583	FME(f) - FME(f)
FME(m) - FME(m)	130000565	FME(m) - FME(m)
FME(m) - N(m)	130000571	FME(m) - N(m)
FME(m) - SMA(f)	130000578	FME(m) - SMA(f)
FME(m) - BNC(m)	130000566	FME(m) - BNC(m)
FME(m) - TNC(m)	130000569	FME(m) - TNC(m)
FME(m) - UHF(m)	130000572	FME(m) - UHF(m)
FME(m) - MUHF(m)	130000573	FME(m) - MUHF(m)
FME(m) - RA - MUHF(m)	130000582	FME(m) - RA - MUHF(m)
FME(m) - RA - BNC(m)	130000580	FME(m) - RA - BNC(m)
FME(m) - RA - TNC(m)	130000581	FME(m) - RA - TNC(m)
FME(m) - SMA(m)	130000577	FME(m) - SMA(m)
FME(m) - SMC(m)	130001573	FME(m) - SMC(m)

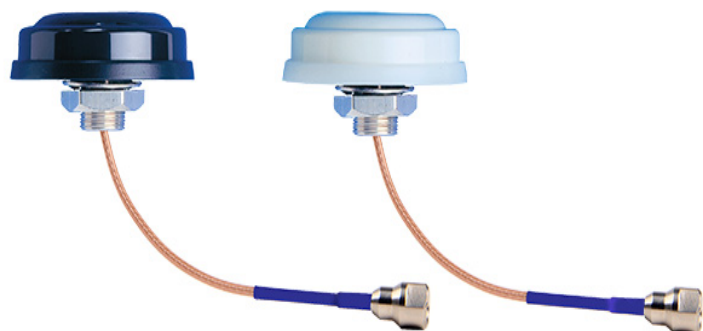
NOMENCLATURE

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)

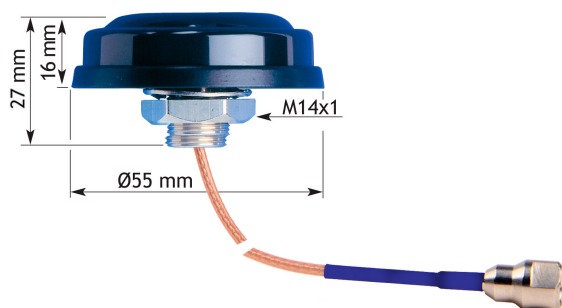
FME-SYSTEM ACCESSORIES - NOTE

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



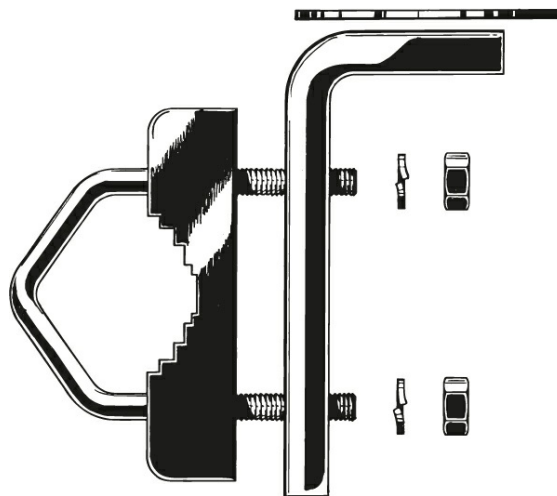
MOUNTING

The gasket should be entirely supported by the mounting plane.

Do not use sealer on rubber gasket or other places.

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:

<http://amphenolprocom.com/images/shop/catalog/pdf-for-catalogues/Declaration-of-Conformity-GNSS 2000.pdf>