

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

DESCRIPTION

- Full hemispherical coverage for the GNSS.
- Built-in high gain, low noise amplifier.
- Input filter for thorough RF-overload protection.
- Right-hand circular polarization (RHCP).
- 3 V - 15 V supply voltage.
- DC supply via RF-connector.
- Total design carried out to make the antenna withstand tough environments.
- Comprehensive range of accessory mounting brackets available.



SPECIFICATIONS

Electrical	
Model	GNSS 2020
Frequency	1559 - 1610 MHz
Antenna Type	Patch Antenna
Polarisation	RHCP
Pattern Type	Hemispherical
Impedance	50 Ω
Axial Gain	31 dBic (typ.)
Power Supply	3 - 15 V DC
Cross Polar Attenuation	> 10 dB (typ.)
EMC	Full protection (EN 301 489-1)
Mechanical	
Insulation	Connector ground terminal galvanically insulated from the mounting hardware
Antenna Colour	White (RAL 9010)
Connection(s)	N(f)
Materials	Antenna dome : Weather-resistant low-loss plastic
Wind Area	0.0045 sq. m / 0.05 sq. ft.
Wind Load	Approx. 3.7 N @ 160 km/h / 99.42 mph.
Diameter	50 mm / 1.97 in.
Height	Approx. 84 mm / 3.3 in.
Weight	Approx. 0.25 kg / 0.55 lb.
Mounting	Vertical on pipe mast ø 25 - 33 mm / 1.00 - 1.30 in. on a mounting bracket 35 - 55 mm / 1.38 - 2.17 in.

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)	> 50 dB, f < 1525 MHz > 50 dB, f > 1650 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	-40 °C to +70 °C
Survival Wind Speed	200 km/h
Ingress Protection	IP67

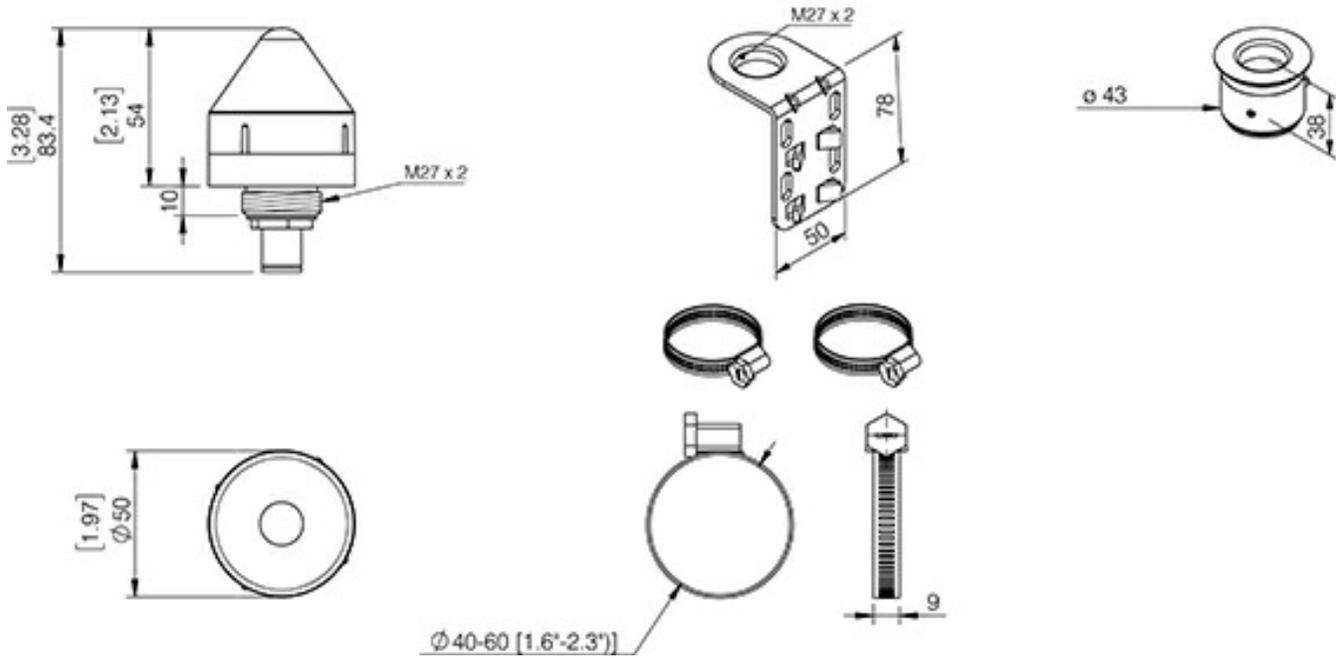
ORDERING

Model	Product No.
GNSS 2020	112000093
GNSS 2020-1"	112000094
Accessories	
Bracket w. clamps	112000095
1" Mount	112000096

DIMENSIONS

GNSS 2020 is delivered with mounting bracket and 2 straps

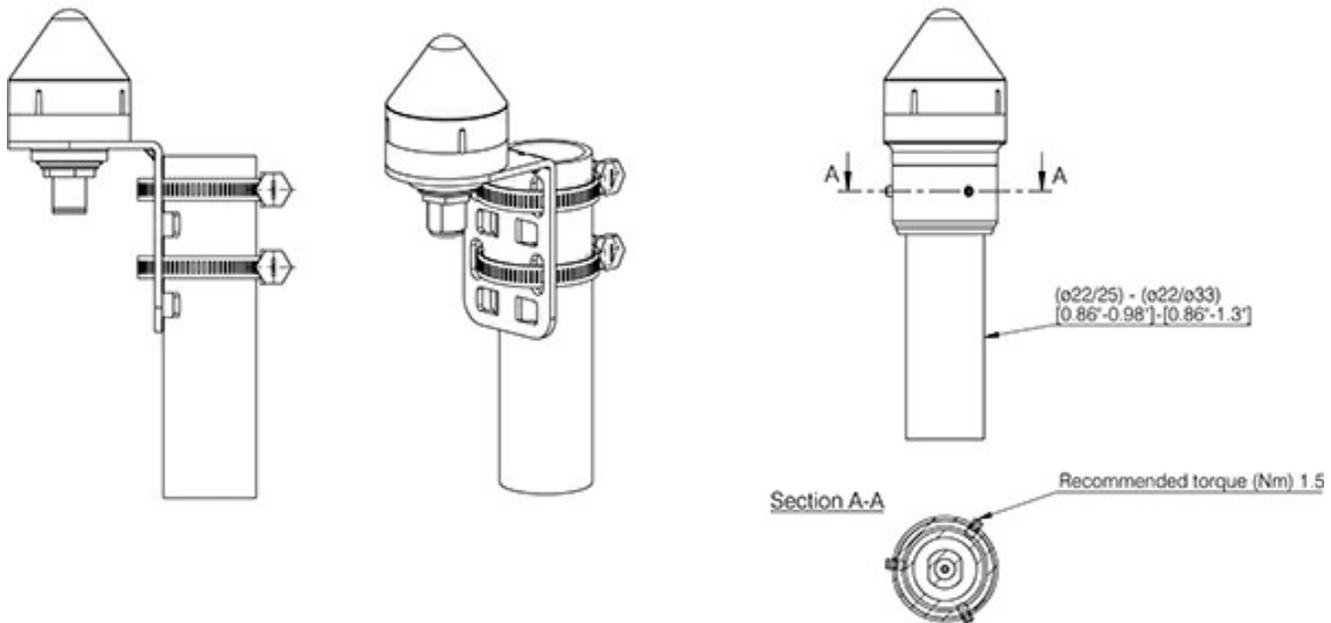
GNSS 2020 -1" is delivered with 1" tube mounting



MOUNTING DETAILS

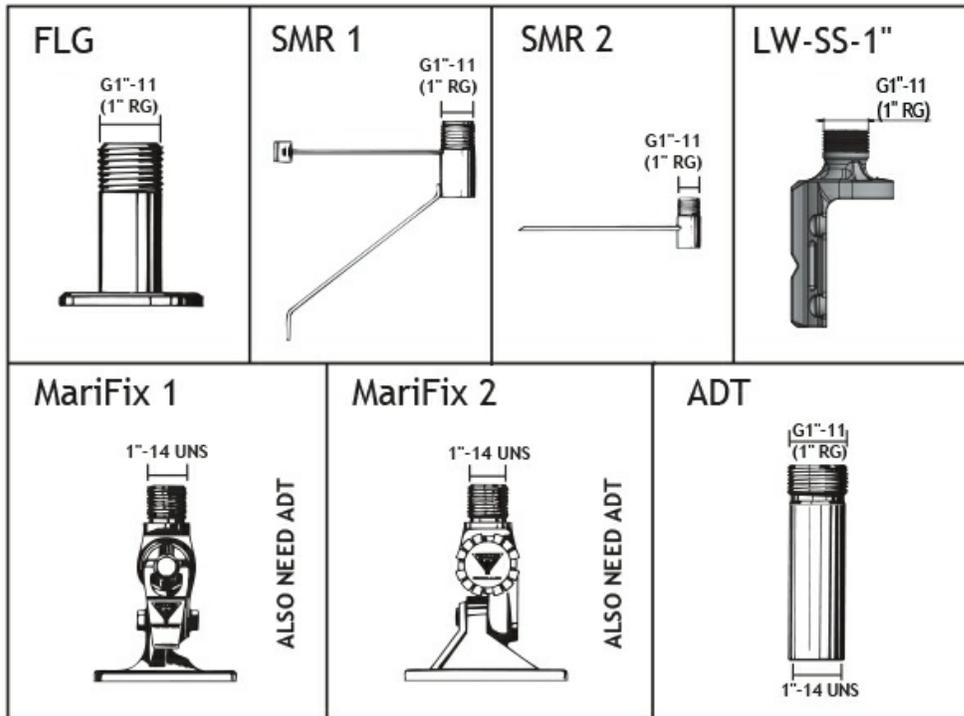
Mounting details for GNSS 2020
 Mounting with bracket on tube.
 Pipe mast dimension: 35-55 [1.38"-2.16"]
 Recommended torque (Nm) 4

Mounting details for GNSS 2020
 Mounting with 1" tube mounting
 Pipe mast dimension: (ø22/25) - (ø22/ø33)
 [0.86"-0.98"]-[0.86"-1.3"]



All dimensions are given in mm [in.]

ACCESSORIES FOR GNSS 2020 1"



EU AND UK DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type GNSS 2020 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://amphenolprocom.com/images/shop/catalog/pdf-for-catalogues/Declaration-of-Conformity-GNSS2020.pdf>

