

ATEX Certified GPS, Galileo, Glonass and BeiDou antenna for Mast Mounting in Hazardous areas

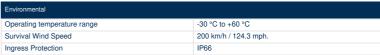
DESCRIPTION

- > Passive quadrifilar helix antenna for fixed installation.
- > Covering GPS, Galileo, Glonass and BeiDou.
- > The antenna is specified as ATEX antenna for use in zone 2 in potentially explosive areas.
- > The antenna is to be used as a receiver only.
- > Before installing the antenna, read the ATEX Product Manual carefully.
- > The antenna is suitable for use in gas groups IIA, IIB and IIC in zone 2.
- > Right-hand circularly polarized antenna (RHCP).
- > The circularly polarized antenna minimizes the fading effect often encountered in environments with reflecting
- Mounting bracket available to make the perfect installation for your specific needs.
- > All metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial
- > Maximum recommended cable loss between antenna and receiver is 9 dB (e.g. 20 m RG 58 A/U-XLL) for receivers with acquisition sensitivity of < - 142 dBm. Higher cable loss can be tolerated for receivers with lower acquisition sensitivity.

SPECIFICATIONS

Electrical	
Model	GPS 4-Ex
Frequency	1570 - 1650 MHz
Antenna Type	Quadrifilar helix antenna
Max. Input Power	Receiver only
Polarisation	Circular
Pattern Type	Hemispherical
Impedance	50 Ω
Gain	2 dBic (0 dBd)
VSWR	< 2.0:1
Bandwidth	75 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	N(f)
Materials	Shroud : Polyrethane - Coated glass fiber Mounting bracket : Stainless steel
Installation Torque	Mounting bracket : 6.5 - 7 Nm
Colour	Blue (RAL 5015)
Wind Area	0.0072 sq. m / 0.08 sq. ft
Wind Load	Approx. 9.6 N @ 150 km/h / 93.2 mph.
Diameter	40 mm / 1.57 in.
Height	Approx. 250 mm / 9.84 in.
Weight	Approx. 0.45 kg / 0.99 lb.
Mounting Bracket	SM-MAS
ATEX Marking	II 3G Ex nA IIC T6



ORDERING

Model	Product No.	
GPS 4-Ex	115000029	
Accessories		
ATEX grounding kit	115000100	
SM-MAS	110000196	

NOTE

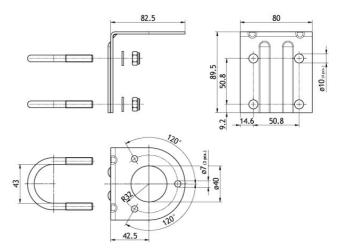
*See the ATEX Product Manual (safety and mounting instructions) and related EU DECLARATION OF CONFORMITY ATEX Directive 2014/34/EU.



ASSEMBLY DRAWING



MOUNTING DETAILS



All dimensions are given in mm [in.]