

## 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 obstacles.
- 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 cable.
- 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 : Polyurethane - 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



Environmental	
Operating temperature range	-30 °C to +60 °C
Survival Wind Speed	200 km/h / 124.3 mph.
Ingress Protection	IP66

### 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.

