

GPS 4-Ex

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

- 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
- 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.

ORDERING DESIGNATIONS

ТУРЕ	PRODUCT NO.
GPS 4-Ex	115000029
ACCESSORIES	
ATEX grounding kit	115000100
SM-MAS	110000196



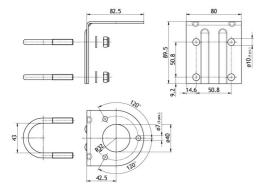
SPECIFICATIONS

ELECTRICAL	
MODEL	GPS 4-Ex
ANTENNA TYPE	Passive quadrifilar helix antenna
FREQUENCY	1575 - 1650 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Circular right-hand
COVERAGE	Hemispherical
GAIN	Approx. 2 dBic
BANDWIDTH	75 MHz
SWR	≤ 2.0
MAX. POWER	Receiver only
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	Approx. 0.0072 m ² / 0.08 ft ²
MAX. WIND SPEED	200 km/h / 124.3 mph.
WIND LOAD	Approx. 9.6 N @ 150 km/h / 93.2 mph.
COLOUR	Blue
MATERIALS	Shroud: Polyrethane - Coated glass fiber Mounting bracket: Stainless steel
TOTAL HEIGHT	Approx. 25 cm / 9.84 in.
ANTENNA DIA.	40 mm / 1.57 in.
WEIGHT	Approx. 450 g / 0.99 lb.
MOUNTING TIGHTENING TOQUE	SM-MAS Mounting brackets 6.5 - 7 Nm
ATEX MARKING	II 3G Ex nA IIC T6
ENVIRONMENTAL	
TEMP. RANGE	-30°C → +60°C
IP RATING	IP 66

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



MOUNTING DETAILS



ASSEMBLY DRAWING

