

ATEX certified, 0 dBd, Omnidirectional Base Station
Antenna for the International Aircraft Band in Hazardous
areas

BESCHREIBUNG

- CXL 130-1-Ex is a 0 dBd, vertically polarized, omnidirectional base station antenna for the 118 - 137 MHz civil aircraft band.
- The antenna is specified as ATEX antenna for use in zone 2 in potentially explosive areas.
- 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.
- The antenna is a broad-banded ½ λ dipole design.
- The antenna can be mounted on threaded 1" water pipe using the supplied 1" revolving nut. In this way, a nice, slim installation is obtained.
- A wide variety of accessory mounting hardware (see below) gives ample choice regarding alternative ways of installation.
- All metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- A conical glass fibre tube with very low wind-loading completely encloses the carefully designed radiating element to ensure long dependable service in all climates.

SPEZIFIKATIONEN

Elektrisch DE	
Modell	CXL 130-1-Ex
Frequenz	118 - 137 MHz
Antennentyp	Coaxial dipole, broad-banded
Spezielle spez. Info	Max. HF Eingangsleistung (EIRP) in ATEX Umgebung *: Group IIA : 35.6 dBm (3.6 W) Group IIB : 33.3 dBm (2.1 W) Group IIC : 30.8 dBm (1.2 W)
Polarisation	Vertikal
Muster-Art	Omnidirektional
Öffnungswinkel 3 dB, vertikal	80 °
Öffnungswinkel 3 dB, horizontal	Omnidirektional
Impedanz	50 Ω
Gewinn	0 dBd (2.2 dBi)
VSWR	< 1.75:1
Bandbreite	19 MHz
Antistatischer Schutz	Alle Metallteile DC-geerdet (Stecker zeigt einen DC-Kurzschluss)
HCM-Code(s)	HCM000ND00, 040DE00

Mechanisch DE	
Verbindungsmoment	UHF(f) (fitting PL-259) : 0.7 - 1.1 Nm
Materialien	Radome : Polyurethane-coated glass fibre Mounting hardware : Black chromed brass
Installationsmoment	20 - 25 Nm
Farbe	Blau (RAL 5015)
Windbereich	0.023 sq. m
Windlast	29 N (160 km/h)
Höhe	ca. 1430 mm
Gewicht	ca. 0.85 kg
Montage	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories)
ATEX-Markierung	II 3G Ex nA IIC T6



Umwelt	
Betriebstemperaturbereich	-30 °C to +60 °C
Max. Windgeschwindigkeit	200 km/h
IP Schutzklasse	IP66

BESTELLUNG

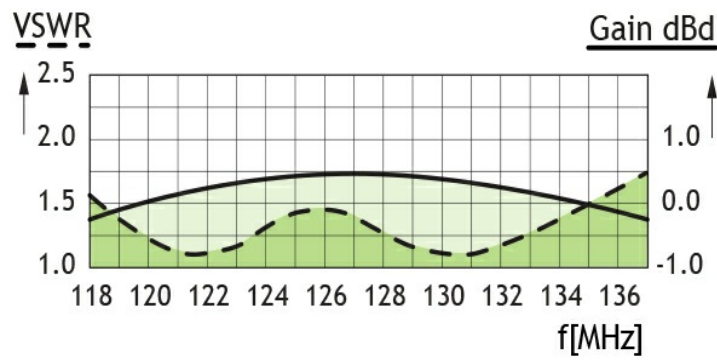
Modell	Produkt Nr	Beschreibung
CXL 130-1-Ex	115000026	
Accessories		
LW-SS-1"-Ex	115000102	ATEX Grounding Kit included

CALCULATION OF MAX. ANTENNA INPUT POWER IN DIFFERENT ATEX GROUPS

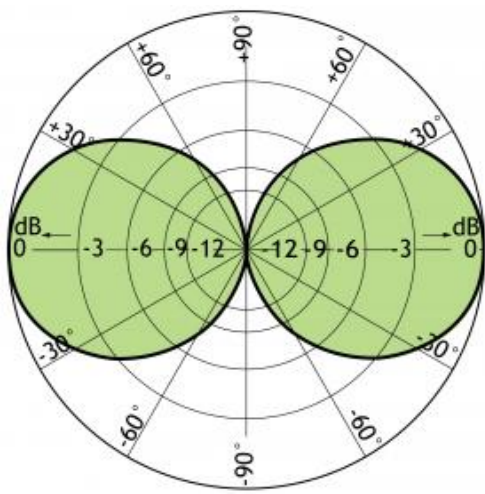
ATEX GROUP	MAX. EIRP POWER	ANTENNA GAIN	MAX INPUT POWER
IIA	37.7 dBm (6.0 W)	0 dBd / 2.15 dBi	35.6 dBm (3.6 W)
IIB	35.4 dBm (3.5 W)	0 dBd / 2.15 dBi	33.3 dBm (2.1 W)
IIC	33.0 dBm (2.0 W)	0 dBd / 2.15 dBi	30.8 dBm (1.2 W)

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

TYPICAL GAIN AND VSWR CURVE



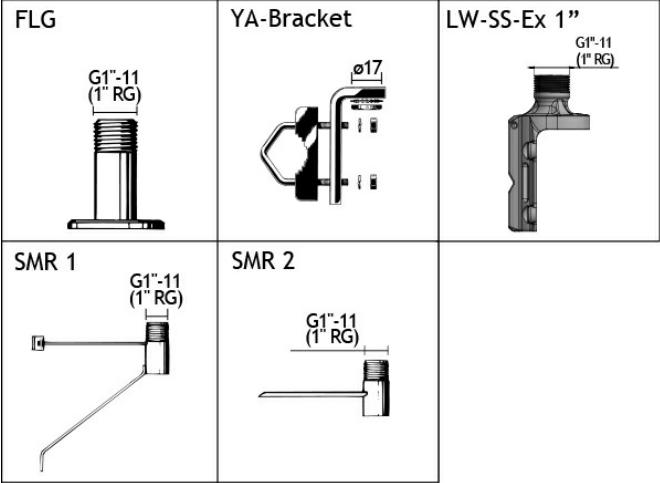
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



ACCESSORIES (TO BE ORDERED SEPARATELY)



ATEX GROUNDING KIT

