

CXL 130-1-Ex

ATEX CERTIFIED, 0 DBD, OMNIDIRECTIONAL BASE STATION ANTENNA FOR THE INTERNATIONAL AIRCRAFT BAND IN HAZARDOLIS AREAS

CXI 130-1-FX

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

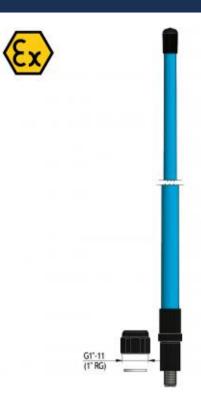
- CXL 130-1-Ex is a 0 dBd, vertically polarized, omnidirectional base station antenna for the 118 - 137 MHz civil aircraft band.
- The antenna is specified as ATEX antenna for use in zone 2 in potentially explosive areas.

DESCRIPTION

- > Before installing the antenna, read the technical documentation 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

ORDERING DESIGNATIONS

ТҮРЕ	PRODUCT NO.
CXL 130-1-Ex	115000026





CXL 130-1-Ex

ATEX CERTIFIED, O DBD, OMNIDIRECTIONAL BASE STATION ANTENNA FOR THE INTERNATIONAL AIRCRAFT BAND IN HAZARDOUS AREAS

SPECIFICATIONS

ELECTRICAL				
MODEL	CXL 130-1-Ex			
ANTENNA TYPE	½ λ coaxial dipol, broad-banded			
FREQUENCY	118 - 137 MHz			
IMPEDANCE	Nom. 50 Ω			
RADIATION	Omnidirectional			
POLARIZATION	Vertical			
GAIN	2 dBi 0 dBd			
BANDWIDTH	19 MHz			
SWR	□ 1.75			
MAX. RF INPUT POWER DUE TO MAX. EIRP IN ATEX ENVIRONMENT *				
Group IIA Group IIB Group IIC	: 35.6 dBm (3.6 W) : 33.3 dBm (2.1 W) : 30.8 dBm (1.2 W)			
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)			
MECHANICAL				
TEMP. RANGE	-30° C 🛮 60° C			
CONNECTOR TIGHTENING TORQUE	UHF-female (fitting PL-259) 0.7 - 1.1 Nm			
WIND SURFACE	0.023 m ² / 0.25 ft ²			
WIND LOAD	29 N @ 160 km/h / 99.42 mph			
MAX. WIND SPEED	200 km/h / 124.27 mph			
INGRESS PROTECTION LEVEL	IP66			
COLOUR	Blue			
MATERIALS	Radome: Polyurethane-coated glass fibre Mounting hardware: Black chromed brass			
MATERIALS TOTAL HEIGHT	glass fibre Mounting hardware: Black			

MOUNTING

ATEX MARKING

TIGHTENING TORQUE

related EC DECLARATION OF CONFORMITY ATEX Directive 2014/34/EU.

On 1" RG (G1" - 11)

optional

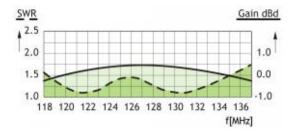
20 - 25 Nm

II 3G Ex nA IIC T6

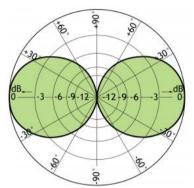
threaded water pipe or on

mounting brackets (see below)

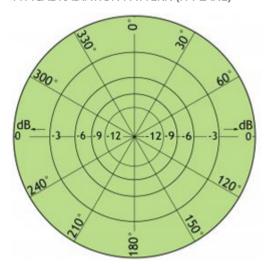
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

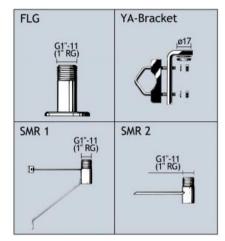


^{*} See the ATEX Product Manual (safety and mounting instructions) and

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)

ACCESSORIES (to be ordered separately)







PROCOM A/S reserve the right to amend specifications without prior notice