



CXL 130-1LW-SS-Ex

ATEX certified, 0 dBd, Omnidirectional Base Station Antenna for the International 118 - 137 MHz Band in Hazardous areas



DESCRIPTION

- CXL 130-1LW-SS-Ex is a 0 dBd, vertically polarized, omnidirectional base station antenna which covers the 118 – 137 MHz band in Hazardous areas.
- The antenna is specified as an ATEX antenna for use in zone 2 in potentially explosive areas.
- Before installing the antenna, please read the ATEX Product Manual carefully.
- The antenna is suitable for use in gas groups IIA, IIB and IIC in zone 2.
- It's only necessary to install an ATEX grounding Kit on the LW-SS-Ex bracket, when the point of installation has a different electrical potential than the system.
- The antenna is a broad-banded $\frac{1}{2} \lambda$ dipole design.
- The accompanying U-bolts and fittings are made of stainless steel.
- The antenna element is sealed in high-quality glass fibre tube.
- All metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.

SPECIFICATION

Electrical	
Model	CXL 130-1LW-SS-Ex
Frequency	118 – 137 MHz
Antenna Type	Coaxial dipole, broad-banded
Special spec. info	Max. RF Input Power due to max. EIRP in ATEX Environment *: Group IIA : 35.6 dBm (3.6 W) Group IIB : 33.3 dBm (2.1 W) Group IIC : 30.8 dBm (1.2 W)
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 1.75:1
Bandwidth	19 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 040DE00
Environmental	
Operating temperature range	-30 °C to +60 °C
Survival Wind Speed	200 km/h
Ingress Protection	IP66
Mechanical	
Connector Torque	N(f) : 0.7 – 1.1 Nm
Wind Area	0.023 sq. m / 0.25 sq. ft
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Stainless acid-proof steel (AiSi 316L) U-bolt and fittings : Stainless steel (AiSi 316)
Installation Torque	3 Nm
Colour	Blue (RAL 5015)
Historic Brand	Amphenol Procom
Height	Approx. 1500 mm / 59.06 in.
Wind Load	29 N (160 km/h)
Dia. At Top End	17 mm / 0.67 in.
Weight	Approx. 1.25 kg / 2.76 lb.
Dia. At Bottom End	23 mm / 0.91 in.
Mounting	On 16 to 54 mm / 0.63 – 2.13 in. dia. mast tube
ATEX Marking	II 3G Ex nA IIC T6

ORDERING CODES

Model	Product No.
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115000001

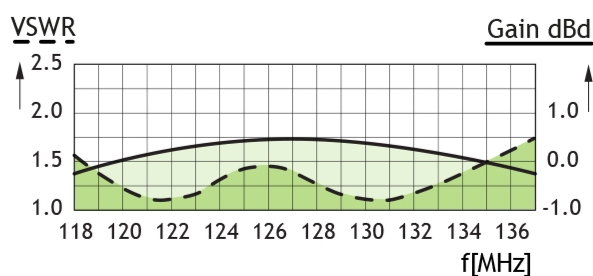
ADDITIONAL INFORMATION

Calculation of max. Antenna input power in different ATEX groups

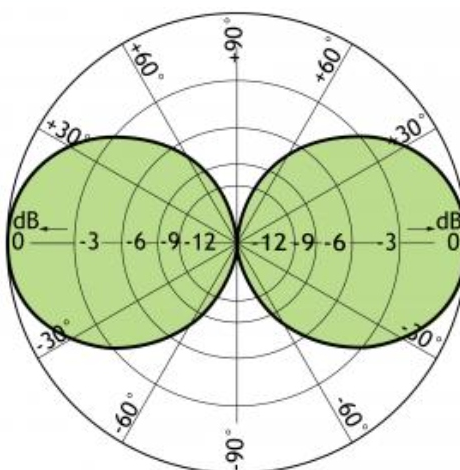
ATEX GROUP	MAX. EIRP POWER	ANTENNA GAIN	MAX INPUT POWER
IIA	37.7 dBm (6.0 W)	0 dBd / 2.15 dBi	35.6 dBm (3.6 W)
IIB	35.4 dBm (3.5 W)	0 dBd / 2.15 dBi	33.3 dBm (2.1 W)
IIC	33.0 dBm (2.0 W)	0 dBd / 2.15 dBi	30.8 dBm (1.2 W)

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

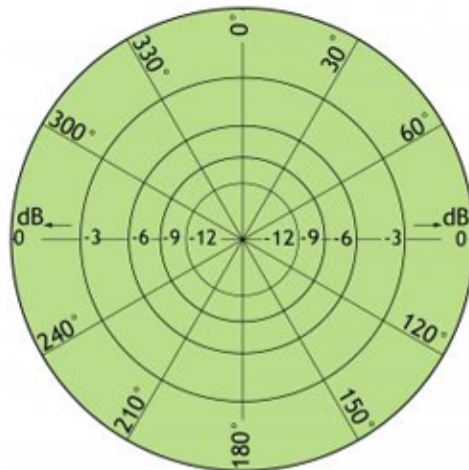
Typical Gain and VSWR curve



Typical Radiation Pattern (E-Plane)



Typical Radiation Pattern (H-Plane)



Mounting Details

