



## **CTX-SERIES HAZARDOUS AREA EXPLOSION PROOF ANTENNAS**



- 900 MHz, 2.4 GHz & 5.0 GHz ISM Band, 802.11a,b,g, Wi-Fi
- Dual band AMPS 824 ~ 896 MHz & PCS (GPRS) 1850 ~1990 MHz
- UL listed & ATEX certified
- Internal seal fitting
- Custom frequencies available
- TNC connector
- Mounting: ¾" NPT Explosion Proof Housing Hub or ¾" pipe and EP Conduit Union Fitting
- Rugged Nickel Plated Brass mounting base
- Industrial temperature range  $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$



LISTED

**Class 1, Div 1,  
Zone 1  
Groups, C & D**



**ATEX  
ZONE 1**

The CTX-Series of antennas are designed for use in "Hazardous-Classified" and Industrial-Hardened applications. The antennas are omni-directional with 2.0 dBi gain and designed for flexible mounting on a variety of explosion proof housings or on ¾" pipe with a ¾" NPT pipe thread. The mounting base is made of heavy nickel-plated brass with an integrated TNC coaxial connector for ease of installation. The radome is optimized for rugged industrial applications while maintaining maximum radio frequency transmission and reception efficiency. The antenna may be mounted up to 18" away from the enclosure within a hazardous location without an additional seal.

- Hazardous tank level monitoring
- Offshore platforms
- Chemical processing
- Power plants
- Utility systems where explosive gases may be present
- PCS, AMPS, GPRS, 802.11
- Wireless bridges
- Wireless Ethernet
- Hazardous area computers

Typical Installation



## CTX-SERIES



← **RUGGED INDUSTRIAL RADOME**

← **INTEGRAL FLAMEPROOF SEAL**

← **3/4" NPT THREAD**

← **TNC CONNECTOR**

### Specifications

Impedance: 50  $\Omega$

Gain: 2.0 dBi

Maximum power: 2 Watts

Connector type: TNC female (2.4 GHz has reverse polarity female TNC)


Mounting base: 3/4" NPT

Impact rating: 7 joules

Weight: 1.06 lbs., 0.48 kg

Maximum length including TNC connector: 5.85", 148.6mm, Max. diameter 2.02", 51.3mm

### Certifications

UL listed for the following locations: Class I Div 1, Groups C, D  $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$ , Class I Zone 1 AEx d IIB T5, Ex d IIB T5  $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$ . CE 0539  II2G Ex d IIB T5, DEMKO 08 ATEX 0727941X (see documents 35105 and 35106 for safe installation)

### Ordering Information *(other frequencies available, contact factory for details)*

<u>Part Number</u>	<u>Frequency</u>
CTX-800-TF	Dual band 824~896 MHz & 1850~1990 MHz
CTX-801-TF	Dual band 801-940 MHz & 1901-2000 MHz
CTX-900-TF	915 MHz
CTX-2400-TR	2.4 GHz
CTX-5000-TF	5.0 GHz

