

## **CTB-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



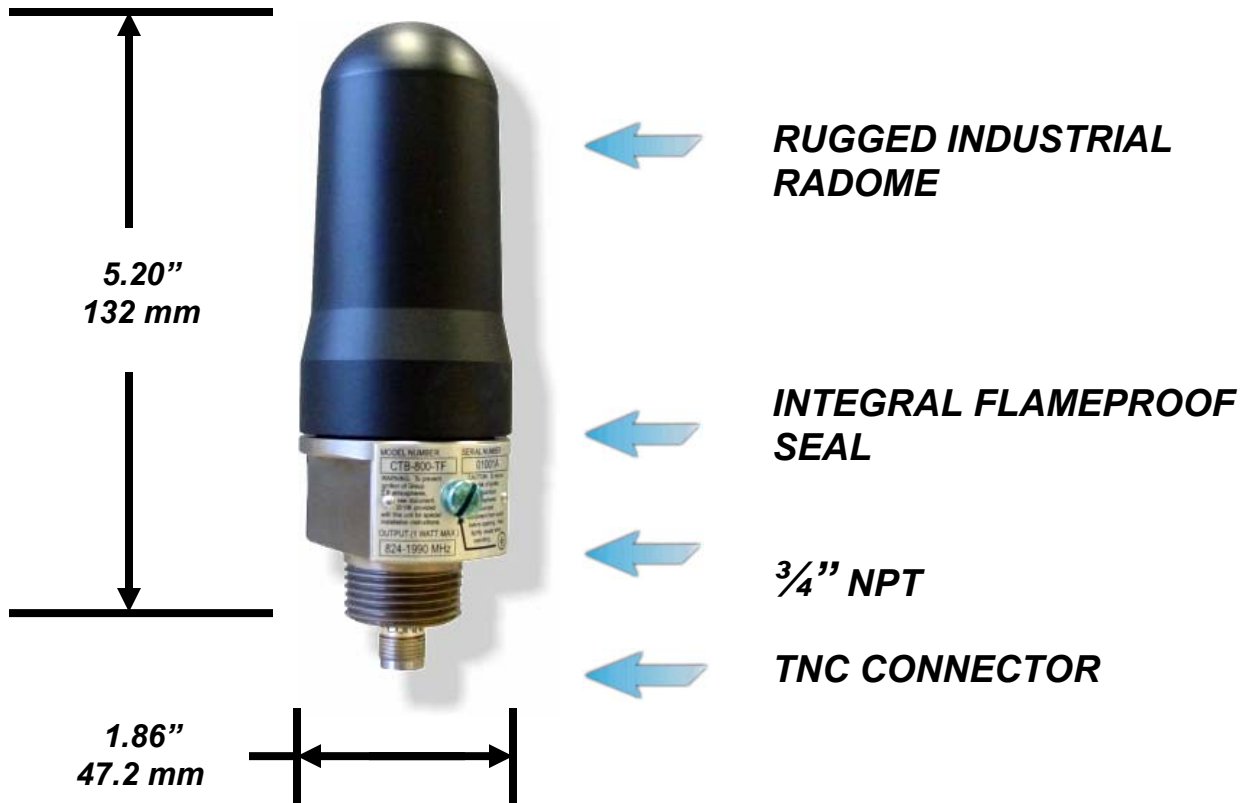
The CTB-Series of antennas are designed for use in “Hazardous-Classified” and Industrial-Hardened applications. The antennas are omni-directional with 2.0 dBi gain and designed for flexible mounting on a variety of explosion proof housings or on ¾" pipe with a ¾" NPT pipe thread. The mounting base is 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.

### **APPLICATIONS**

- 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**





## Specifications

Impedance: 50  $\Omega$

Gain: 2.0 dBi

Maximum power: 1 Watt

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

Mounting base: 3/4" NPT


Weight: 1.06 lbs., 0.48 kg

Maximum length including TNC connector: 5.6", 142.2 mm

Maximum diameter (not including ground screw): 1.86", 47.2 mm

## Certifications

UL listed for the following locations: CLASS I DIV 1, GROUPS C, D  $-25^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$ , CLASS I ZONE 1 AEx d IIB T6, Ex d IIB T6  $-20^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ .

CE 0575  IIG EEx d IIB T6, DEMKO 05 ATEX 0407270X (see documents 35105 and 35106 for safe installation)

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

Part Number

Frequency

CTB-800-TF

Dual band 824~896 MHz & 1850~1990 MHz

CTB-900-TF

915 MHz

CTB-2400-TR

2.4 GHz

CTB-5000-TF

5.0 GHz