



## **CTX-401 HAZARDOUS AREA EXPLOSION PROOF ANTENNAS**



- Bandwidth: 450 MHz to 470 MHz
- UL listed, ATEX and IECEx Certified
- Internal seal fitting
- TNC connector
- Mounting: 3/4" NPT or M20
- Rugged Nickel Plated Brass mounting base



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



**ATEX  
ZONE 1**

**IECEx**

LISTED

The CTX-401 antennas are designed for use in “Hazardous-Classified” and Industrial-Hardened applications. The antennas are omni-directional with 0 dBi gain and designed for flexible mounting on a variety of explosion proof housings. The mounting base is made of heavy nickel-plated brass and includes a Class 1, Division 1 seal and may be ordered with a 3/4” NPT thread or M20 thread. An integrated TNC connector is used for the RF connection. 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. A ground plane will increase performance of this antenna.

- Hazardous tank level monitoring
- Offshore platforms
- Chemical processing
- Power plants
- Utility systems where explosive gases may be present
- Wireless bridges
- Hazardous area computers
- Patented design

Typical Installation



## CTX-401 SERIES



**RUGGED INDUSTRIAL RADOME**



**INTEGRAL FLAMEPROOF SEAL**



**3/4" NPT or M20 THREAD**



**TNC CONNECTOR**

### Specifications

Impedance: 50  $\Omega$

Gain: 0.0 dBi (ground plane dependant)

Maximum power: 2 Watts

Connector type: TNC female

Mounting base: 3/4" NPT (optional M20)

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

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

### Certifications

UL, cUL listed: 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 Gb X  $-40^{\circ}\text{C} \leq T_a \leq 85^{\circ}\text{C}$

ATEX: CE0539  IIBG, Ex d IIB T5 Gb,  $-40^{\circ}\text{C} \leq T_a \leq 85^{\circ}\text{C}$ , DEMKO 08 ATEX 0727941 X

IECEEx: Ex d IIB T5 Gb UL 12.0061X  $-40^{\circ}\text{C} \leq T_a \leq 85^{\circ}\text{C}$

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

<u>Part Number</u>	<u>Frequency</u>	<u>Mounting Base Thread</u>
CTX-401-TF	450MHz to 470MHz	3/4NPT
CTM-401-TF	450MHz to 470MHz	M20 (20mm)

