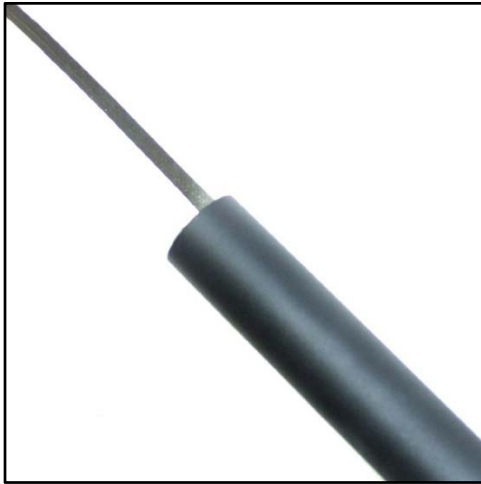




MANUFACTURERS OF MMO AND  
PLATINIZED TITANIUM ELECTRODES

## POINT SOURCE DISCRETE ANODES DATA SHEET



Titanium Electrode Products Companies, "TELPRO," are manufacturers of mixed metal oxide anodes for cathodic protection.

**TELPRO Mixed Metal Oxide Activated Tubular Point Source Anodes** are manufactured using titanium, which meets ASTM B338 Grade 1 or Grade 2 standards, which has been coated with **TELPRO Mixed Metal Oxide** coating.

**TELPRO MMO** coating applied to the titanium substrate has been designed for use in all cathodic protection applications. **TELPRO** coating consists of IrO<sub>2</sub>/Ta<sub>2</sub>O<sub>5</sub> and is suitable for use in soils, freshwater, brackish water and seawater. Because mixed metal oxide anodes have an extremely low consumption rate, the titanium substrate used remains constant throughout the design life of the anode.

APPLICATIONS
STEEL REBAR IN CONCRETE
STEEL FRAME BUILDINGS

Based upon accelerated life testing, conducted by an independent laboratory, **TELPRO MMO** coating has been proven to be equivalent or superior to other mixed metal oxide coatings which are currently being used; a copy of this test report is available upon request.

Strict quality control procedures are followed throughout the entire coating process, to guarantee proper coating adhesion and loading. Also, **TELPRO** products are tested using an X-Ray Fluorescence Spectrometer, to ensure production of the highest quality product, which is fundamental in every step of the manufacturing process.

**TELPRO MMO** Oxide Activated Tubular Point Source Anodes can be self-gas venting or supplied with venting holes, plastic end-caps and a PVC venting tube. These anodes can also be supplied with a spot welded titanium conductor bar, typically manufactured of titanium ribbon, 0.25" (6.35mm) by 0.025" (.635mm), which can be either coated or uncoated, and of a length appropriate to suit project requirements.

The current output of the anode is calculated by multiplying the anode surface area x design current density, which typically can vary 110mA/m<sup>2</sup> to 900mA/m<sup>2</sup>, subject to design factors such as gas venting, acidic attack on concrete, life of system, etc. Normal Design Life for the point source anode is typically 50 plus years when operating at an anode current density of 900mA/m<sup>2</sup>. Coating loading can be adjusted for any combination of current output and design life. Lifetimes are nominal we can supply amps / life different to stated standards on request. Working Environment: Evolution of O<sub>2</sub>, Cl<sub>2</sub> or combination of both.

USA OFFICE : PHONE 281 498 4727 FAX 281 498 4728 TOLL FREE 877 483 5776

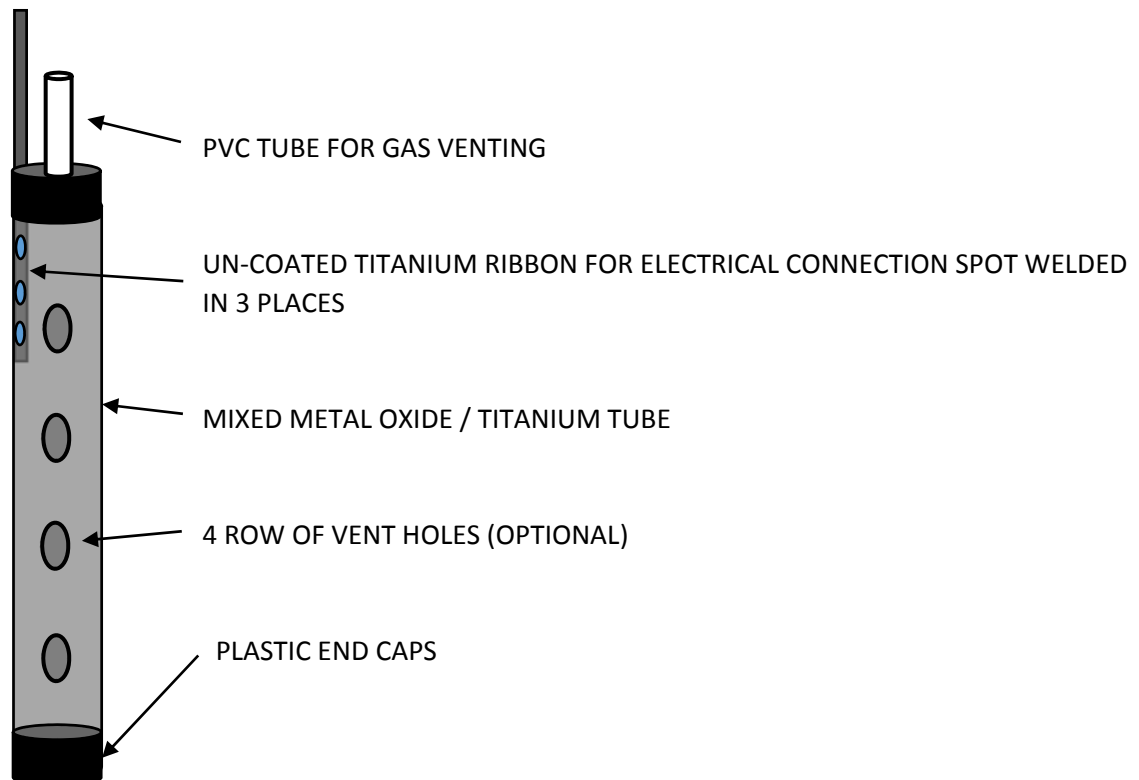
UK OFFICE : PHONE 44 1453 845 718 FAX 44 1453 845 719

WEB : [WWW.TELPROCOMPANIES.COM](http://WWW.TELPROCOMPANIES.COM)

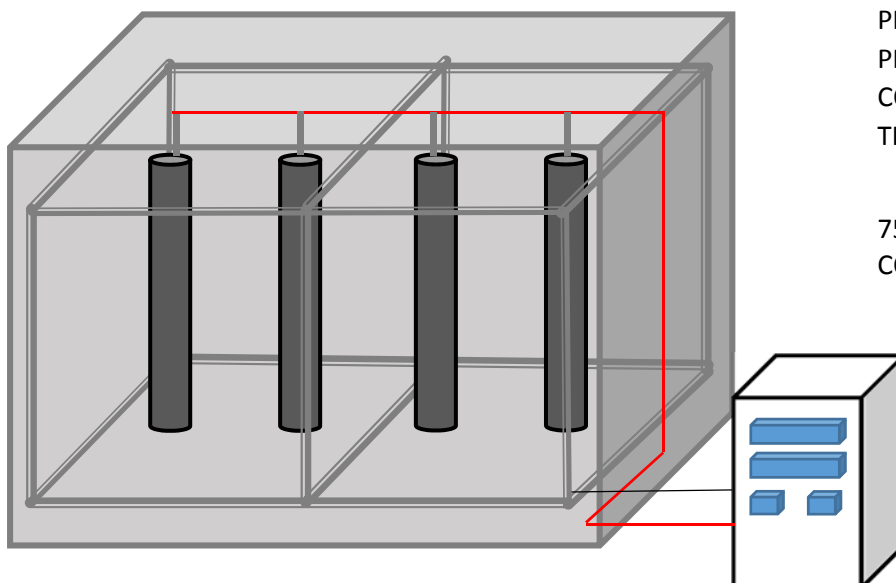
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## POINT SOURCE DISCRETE ANODES DATA SHEET

### LAYOUT OF POINT SOURCE ANODE PRODUCT



### TYPICAL INSTALLATION OF POINT SOURCE ANODES.



POINT SOURCE DISCRETE ANODES FOR NEW BUILD AND RETROFIT OF CATHODIC PROTECTION TO CONCRETE STRUTURES – PROVEN METHOD OF STOPPING CORROSION AND PROLONGING LIFE OF THE STRUCTURE.

75 YEARS + ANODE LIFE CAN BE CONSIDERED

DESIGN IS “ZONED” IN DISCRETE SECTIONS TO PROVIDE CONTROL AND TO ENABLE ACCURATE MEASUREMENT OF SYSTEM PERFORMANCE