

Explosion-Proof Anode Junction Box

The explosion-proof anode junction box serves as the central hub of the Impressed Current Cathodic Protection (ICCP) system, specifically engineered for hazardous and flammable environments such as refineries, tank farms, and offshore platforms. Typically housed in corrosion-resistant GRP (Glass Reinforced Polyester) or SS316 stainless steel, the enclosure boasts Ex d IIB T4 Gb explosion-proof certification and IP66 ingress protection, permitting direct installation in Zone 1/2 hazardous areas. Internally, it features high-quality terminal blocks and dedicated test terminals to consolidate cables from MMO deep-well or flexible anode systems, safely transmitting protective current to the rectifier. This robust enclosure not only ensures secure electrical isolation and sealing but also supports IR-Free potential measurements, integrating explosion safety, environmental durability, and system monitoring into a single, critical component essential for the long-term stability of cathodic protection operations.



KEY FEATURES

- 1.Safe and Reliable Components Optional
- 2.Customized Materials and Dimensions
- 3.Maintenance and Reliability
- 4.Easy installation and disassemble
- 5.Heavy Duty Steel Enclosure

PRODUCT SPECIFICATIONS

Enclosure Material: Casting Aluminum or Stainless Steel

Terminal: 2 to 20nos of Copper Terminals

Busbar: Copper 25mm x 5mm

Insulation Plate: Epoxy

Cable Entrance: Exd Cable Gland

Supporting: Back Galvanized Steel Bracket

Resistor: Adjustable Resistor 10~500W

Shunt: 1A~100A/75mV

Crimp Lugs: Included

Disconnecting Bar: Optional

Normal Explosion Grade: Exd IIB T4

IP Grade: IP66

Temperature: -40°C to +80°C

Application Area: Zone I or Zone II