PRODUCT DATA SHEET

ADVANCE TECHNOLOGY

ProAct™

JUNCTION BOX

PRODUCT DESCRIPTION

Junction boxes are used to terminate and interconnect cathodic protection cables, providing convenient access for inspection, testing, current measurement, bonding, and maintenance. Available in carbon steel, stainless steel, aluminum, glass-reinforced plastic (GRP), and plastic, Advance Technology offers a range of junction boxes to suit various application requirements.

PRODUCT PERFORMANCE

Explosion-Proof Performance

- Explosion-proof junction boxes are available for hazardous-area applications when specified, subject to project requirements and applicable certification.

Mechanical Reliability

- Robust enclosure design and high mechanical strength ensure durability and resistance to damage during installation and service.

Operational Safety

- Stable structural design and reliable insulation performance support safe, dependable long-term operation.

PRODUCT FEATURES

Installation & Maintenance

- Simple installation design allows convenient field replacement and routine maintenance.

Structural Configuration

- Various junction box types are available to suit different installation conditions and application requirements.

Custom Engineering Capability

- Junction box structure, size, and configuration can be customized to meet customer and project requirements.

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JUNCTION BOX

Reference	Title
NACE RP0572	DESIGN, INSTALLATION, OPERATION, AND MAINTENANCE OF IMPRESSED CURRENT DEEP GROUNDBEDS
EN 13509	CATHODIC PROTECTION MEASUREMENT TECHNIQUES

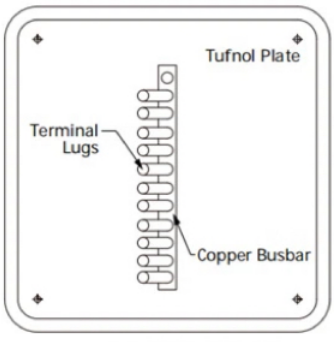
PRODUCT PARAMETERS

Environmental Parameters		
Environment Type	Onshore	Offshore
Environment Temperature	-30℃ ~ +75℃	Customizable
Relative Humidity	0 ~ 100%RH	Customizable
Installation Location	Indoor	Outdoor
Explosion-proof Requirements	NA	Exd II BT4 / Other customization
Installation Method	Box Type	Wall (Mounted) Type
Device Parameters		
Enclosure Material	Galvanized Steel, painted steel, stainless steel, cast aluminum, glass fiber, non-metal, etc.	
Protection Level	IP55 ~ IP68 optional	
Enclosure Size	300x200x150mm, 400x300x150mm 500x400x150mm, 600x400x150mm 700x600x150mm, 800x600x150mm (Various sizes can be customized)	
Enclosure Colour	Light gray, dark gray, stainless steel nature color, other customized colours	
Inner Terminals	Brass Terminals and Nuts	
In line mode	Conduit or cable gland	
Nameplate	Stainless steel, including manufacturer, production date, equipment material, equipment name, protection level, etc.	
Lifespan	Continuous service life not less than 20 years under normal operating conditions	

MODELS AND SPECIFICATIONS

Standard Anode Junction Box AT-JB-ST

This junction box is used to combine multiple anode cables into a single main anode cable, without the need for shunts or resistors. The number of terminals can be configured according to the incoming and outgoing cable requirements.



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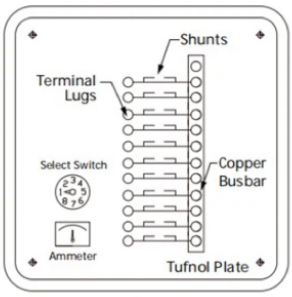
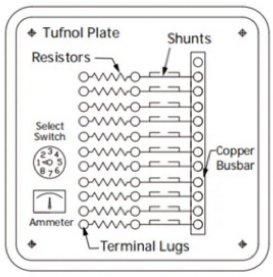
Sacrificial Anode Junction Box AT-JB-SA

This junction box is used to connect sacrificial anodes to the pipeline. When fitted with appropriate measurement terminals or shunts, it allows the current from each anode to be measured for convenient performance monitoring and identification of potential issues.



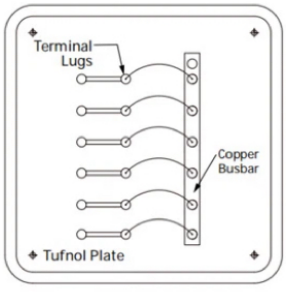
Shunt & Resistor Junction Box AT-JB-SR

This junction box is used to combine multiple anode cables into a single main anode cable. Shunts and rheostats can be installed on each anode cable to measure and adjust the current output of each anode circuit. The number of terminals, shunts, and rheostats can be configured according to the incoming and outgoing cable requirements. An ammeter can also be provided inside the box for direct measurement of the output current from each anode cable.



Bonding Box AT-JB-BC

This bonding box is used for pipeline equipotential bonding, providing a convenient and reliable connection point for bonding cables.



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Explosion-Proof Junction Box AT-JB-EP

This model is designed for hazardous-area applications when specified, subject to project requirements and applicable certification. Enclosure materials and coating systems can be selected according to the site-specific corrosion environment.

For further information, please contact Advance Technology.

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