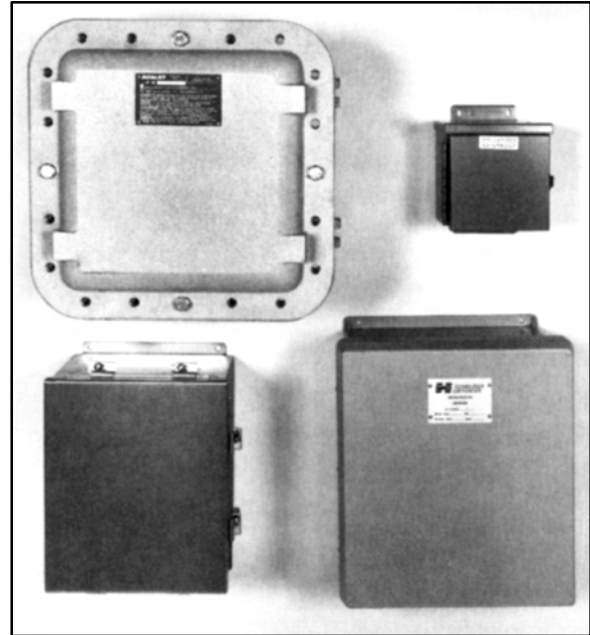


Custom Junction Box

Fabricated To Meet Design Specifications

Creating a superior cathodic protection system starts with selecting the right electrical components. This includes choosing an electrical junction box that is best suited for a particular corrosion prevention application. Because there are so many unique applications for cathodic protection, Corrpro offers custom junction boxes that are made according to design specification. The boxes are available with numerous types of terminals, shunts, and resistors for creating all kinds of electrical circuits. The circuits are mounted on the box by trained technicians, who are knowledgeable in electrical materials and circuitry. A custom junction box can be created by these technicians according to operating parameters, or to exact design specifications. The boxes may also be installed with selector switches, as well as with amp./volt meters, which display in either analog or digital formats.

Junction boxes are installed in all types of environments. To provide adequate protection from the elements, an appropriate enclosure should be selected. Corrpro custom junction boxes are available with all the common electrical cabinet materials, including fiberglass; aluminum; and stainless, painted, or galvanized steel. The cabinets may be selected to meet any of the NEMA enclosure standards, from dust tight to explosion proof, and are offered in numerous sizes to accommodate different circuit configurations.



Typical Applications

Corrpro junction boxes are designed to make electrical connections on impressed-current or galvanic cathodic protection systems. Circuits in these boxes may be developed to measure and adjust current and monitor anode performance. The type of enclosure selected to house these connections permits the junction box to withstand different atmospheric conditions.



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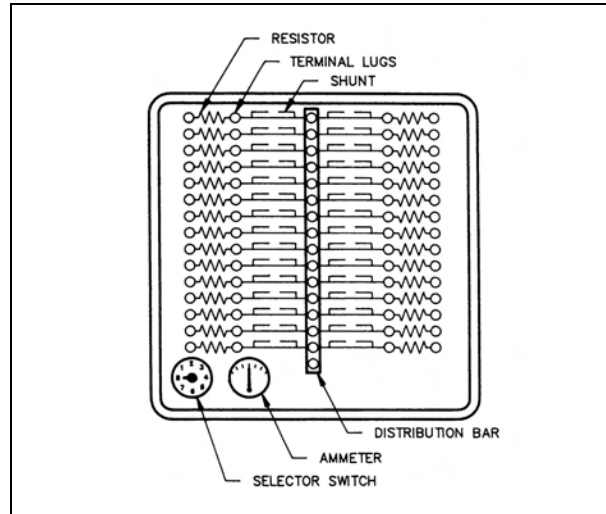
TEST STATIONS AND JUNCTION BOXES

Custom Junction Box

Ordering Procedure

All Corpro junction boxes are made according to the customer's specifications. To order the required box for your particular application, indicate that you need a custom junction box, and specify the quantity desired, the box size and type, the number of circuits, terminal lug size, and the type and quantity of shunts and resistors, if any. An example is provided to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity	20
Junction Box Type	Corpro Custom
Enclosure Size	14 " 12 " 6 in.
Enclosure Material (Fiberglass = Standard)	Fiberglass
Number of Circuits	12
Anode Lead Lug Size	#14 - 2 AWG
Power Feed Lug Size	#2 - 1/0 AWG
Shunt Resistance	0.001 ohms
Shunt Amps	25
Resistor Watts	100
Resistor Amps	10



Junction Box Ordering Information

AVAILABLE CABINETS

CABINET MATERIAL	NEMA RATINGS	SATISFIED
Painted Steel	3, 3R, 4, 4X	(1P64, 1P32, 1P66, 1P66)
Galvanized Steel	3R	(1P32)
Aluminum	3, 3R, 4, 4X	
Stainless Steel	3, 3R, 4, 4X	(1P64, 1P32, 1P66, 1P66)
Fiberglass	3, 3R, 4, 4X	
Cast Aluminum, (explosion proof)	3, 4	(1P64, 1P66)

COMMON LUG SIZES*

#14 - 2 AWG	(2.5 mm ² - 35 mm ²)
#2 - 1/0 AWG	(35 mm ² - 50 mm ²)
1/0 - 2/0 AWG	(50 mm ² - 70 mm ²)
2/0 - 250 MCM	(70 mm ² - 125 mm ²)

COMMON SHUNTS**

TYPE	RESISTANCE W	AMPS
RS	0.01	8
SS	0.001	25
SW (50 MV)	0.0007 - 0.01	5-200
SW (100 MV)	0.0007 - 0.01	5-200

COMMON RESISTORS**

WATTS	RESISTANCE W	AMPS
25	1	5
50	1	7
100	1	10
150	1	12.24
175	1	13.22
300	1	17.32

*Other sizes available.
**Other types available.



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