

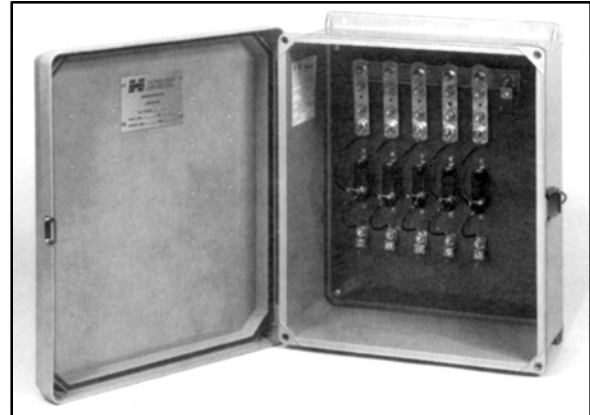
## **Corrpro Type R**

### **Standard Resistor/Shunt Junction Box**

#### **For Regulation Of Anode Current**

Resistance values of anodes on any given impressed-current cathodic protection system are often different due to varying lead wire lengths and electrolyte conditions. To compensate for these unequal resistance levels, and to ensure uniform current output, junction boxes with shunts and resistors can be employed. Corrpro offers a standard junction box with these electrical components. It is provided with shunts and resistors for creating up to twenty-four circuits. The shunts are pre-calibrated, and may be selected with various ohm/amp. combinations. The resistors included are adjustable vitreous style, and are either enamel or silicon coated. Like the shunts, they may be chosen from a wide range of resistance and current combinations to address numerous applications. Corrpro's Type R junction box also can be supplied with built-in amp./volt meters and circuit selector switches. The meters are available with either analog or digital readouts to simplify testing.

The electrical components on Corrpro's Type R junction box are protected from the elements by a fiberglass airtight and watertight cabinet. It meets NEMA Type 4X enclosure standards, and can be used indoors or out. A stainless steel piano-style hinge is utilized to attach the cabinet's door. This corrosion-resistant hardware, combined with the durable fiberglass case, ensures many years of trouble-free operation.



#### **Typical Applications**

Corrpro's Type R junction box permits anode current levels to be controlled. This is accomplished through adjustable resistors attached to each circuit. The application for such a junction box can be found in all types of impressed-current cathodic protection systems with multiple anode connections. It is also ideal for bonding buried structures in close proximity to regulate stray currents. Because the cabinet on the Type R box is NEMA Type 4X rated, it can be operated under the most severe atmospheric conditions.



#### **Corrpro Companies Europe Limited**

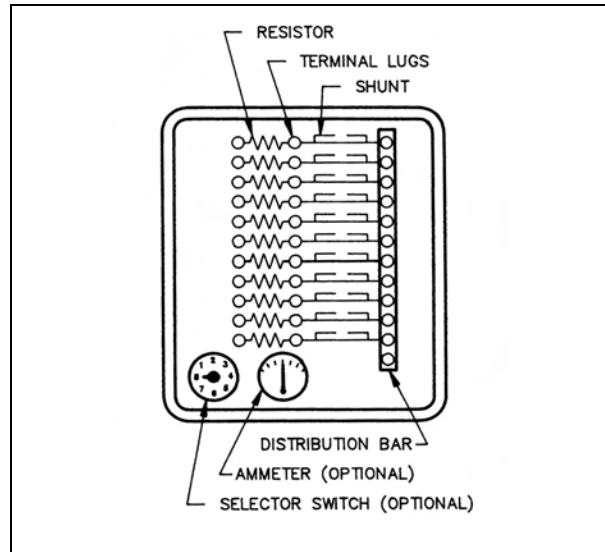
Adam Street, Bowesfield Lane, Stockton on Tees, TS18 3HQ  
Telephone: (01642) 614106 (8 lines) Telex: 587388  
Fax: (01642) 614100 E-mail: ccel@corrpro.co.uk

## Corrpro Type R Standard Resistor/Shunt Junction Box

### Ordering Procedure

All Corrpro junction boxes are made according to customer specifications. To order the required box for your particular application, indicate that you need a Type R junction box, and specify the quantity desired, the enclosure size, the number of circuits, terminal lug sizes, shunt types, resistance, and amperage ratings, along with the wattage and amperage of resistors. An example is provided to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity	20
Junction Box Type	Type R Standard Resistor/Shunt Box
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
Options	Selector Switch



### Junction Box Ordering Information

TERMINAL LUG SIZES*		
#14-2 AWG	(2.5 mm <sup>2</sup> - 35 mm <sup>2</sup> )	
#2-1/0 AWG	(35 mm <sup>2</sup> - 50 mm <sup>2</sup> )	
1/0 - 2/0 AWG	(50 mm <sup>2</sup> - 70 mm <sup>2</sup> )	
2/0 - 250 MCM	(70 mm <sup>2</sup> - 125 mm <sup>2</sup> )	
FIBERGLASS CABINET SIZES* in. (mm)		
LENGTH	WIDTH	DEPTH
10 (254)	8 (203)	5 (127)
12 (305)	10 (254)	5 (127)
14 (356)	12 (305)	6 (152)
16 (405)	14 (356)	6 (152)
18 (457)	16 (406)	8 (203)
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
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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