

Touch Panel Rectifier Unit

Model TPRU for Cathodic and Anodic Protection



Flexible

The CSCL Touch Panel Rectifier Unit (TPRU) incorporates over 6 decades of knowledge and experience into a fully customizable transformer rectifier unit. The TPRU series is suitable for use in all types of cathodic and anodic protection applications. Units have been designed to be both flexible and cost effective, so that they can comply with the most stringent company specifications and provide a high level of protection to critical infrastructure, minimizing downtime and risk of corrosion failure.

TPR units are designed and assembled at our manufacturing complex in Toronto, Canada where extensive quality management and engineering design processes ensure consistency and full compliance with client specifications. All components used in the TPRU, are readily available off-the-shelf and have been selected based on a strict universal quality and compatibility criteria. Care has also been taken to ensure continuity due to obsolescence where, design lives often exceed product life-cycles.

The Corrosion Service TPRU series controllers are standard Programmable Controller (PLC) units, supplied by one of the largest automation companies in the world. This ensures inherent compatibility with plant monitoring and control systems and security of spare part availability. All TPR units are supplied with plug and play internet capability, at no additional cost to the customer, with fully customizable operating software. A variety of power side configurations are available and base configurations have been fully optimized to minimize ripple and ensure maximum output efficiency. This makes TPR units extremely power efficient.

Features & Benefits

- + Fully customizable to any client specification.
- + Industry standard programmable logic controller, signal conditioners and power components.
- + Secure internet connectivity comes as standard.
- + Modular construction for quick maintenance and troubleshooting.
- + Suitable for all electrochemical corrosion prevention applications.
- + Manufactured in Canada to ISO 9001 aligned quality control procedures.

Technical Data

AC INPUT

Input Voltage	110 to 690 Volts in all industry standard configurations
Input Frequency	50/60Hz
Input Phase	Single or Three Phase

DC OUTPUT

Output Voltage Options	12, 16, 24, 48, 75, 100 Volts
Output Current Options	5, 10, 15, 25, 50, 100, 150, 250, 500, 1000, 1500, 2000 Amps

RECTIFIER OPTIONS

Element	Silicon Diode, Thyristor (SCR)
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DESIGN CHARACTERISTICS

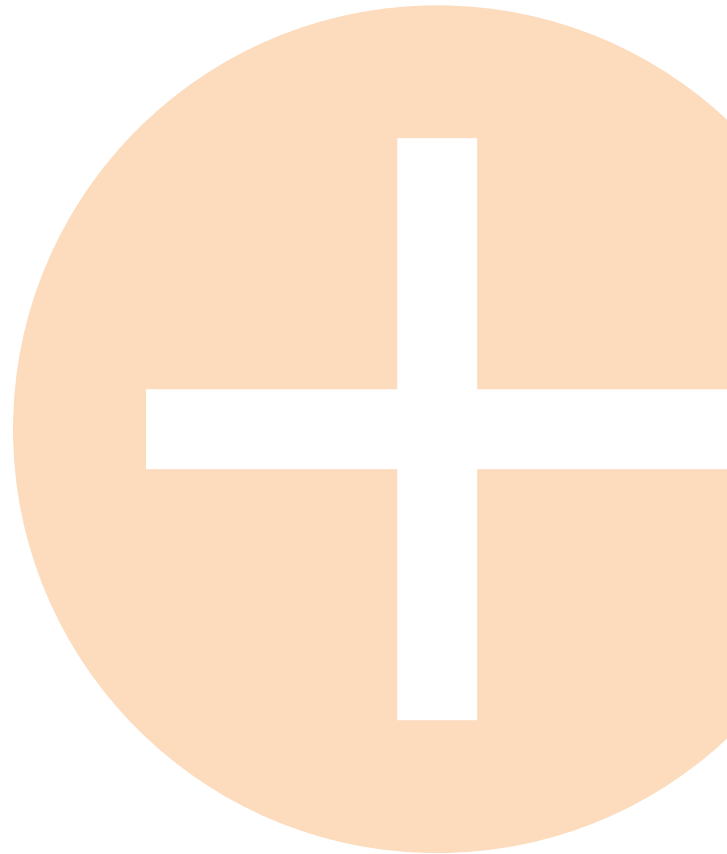
Control Resolution	Continuously Variable
Cooling	Air Convection or Forced Air
Reference Electrodes	Zero to Unlimited
Cabinet	Painted Carbon Steel or Stainless Steel
Control	Constant Current, Constant Voltage or Potential Controlled
Protection	AC Breakers, DC Breakers, Lightning Arrestors and Fuses
Metering	Digital meters as standard
Monitoring	PLC units come with digital touch screen as standard
Notes	CSCL's modular manufacturing system enables the addition of many other additional features. Please inquire with our engineering team to learn more about our Touch Panel Rectifier Unit (TPRU)

Description

The Corrosion Service Touch Panel Rectifier Unit (TPRU) is a fully customizable unit for impressed current cathodic and anodic protection. TPRU series of transformer rectifier units, are fully automatic and built on a common platform that utilizes industry standard controllers and signal processing modules.

Characteristics

- Impressed current cathodic protection
 - o Concrete
 - o Pipelines
 - o Storage Tanks
 - o Marine
 - o Clarifiers
- Anodic protection
 - o Storage Tanks
 - o Coolers
 - o Digesters
 - o Clarifiers
 - o Plant Piping



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