

CATHi

Cathodic Protection RMU

The CATHi is a state-of-the-art remote monitoring solution designed for continuous, real-time surveillance of cathodic protection (CP) systems. Engineered for reliability in harsh environments, the CATHi ensures optimal corrosion protection for buried pipelines, storage tanks, and other critical metallic infrastructure.

Equipped with advanced data acquisition, secure communication, and remote-control capabilities, the device enables operators to monitor CP performance, detect anomalies, and adjust system parameters without the need for on-site visits.



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Measures all TR & Structure Parameters:

This system is designed to comprehensively monitor all transformer rectifiers (TR) and structure-related parameters, including voltage, current, and potential levels. It ensures accurate, real-time data collection for effective corrosion protection & system analysis.

GPS Synchronized Current Interruption:

Equipped with GPS synchronization, the system enables precise current interruption across multiple units.

Fully Autonomous or Network Operated:

The CATHi offers flexible operation modes, either fully autonomous for remote, stand-alone installations or network-operated for centralized control.

10+ Years On-board Storage: With over a decade of on-board data storage capacity, the system ensures long-term data retention without the need for frequent downloads. This is ideal for remote locations where access is limited and data continuity is critical.

Compact Design fits in any TR: Its compact and modular design allows seamless integration into any existing transformer rectifier cabinet. This space-efficient form factor simplifies installation and retrofitting in both new and legacy systems.

Web-Based Server: A built-in web-based server provides remote access to system data and configuration through any standard browser. This eliminates the need for specialized software and enables real-time monitoring from anywhere in the world.

Intelligent Diagnosis : Clear Diagnostics for all Alert/Alarm conditions.

Multiple Communication Protocols:

To ensure seamless integration with various SCADA and monitoring platforms, the system supports multiple communication protocols. This interoperability enhances system flexibility and futureproofing.

Ethernet & RS-485 Interface:

Dual communication interfaces, Ethernet and RS-485, provide robust connectivity options for both modern and legacy systems.

This ensures reliable data transmission in diverse network environments.

Wide Range of Operating Temperature:

Built to withstand extreme environmental conditions, the system operates reliably across a wide temperature range of -25°C to +85°C.

Parameter	Description / Rating
Microcontroller	Flash-based high-performance 32-bit processor
Memory	High performance serial based 32Mbit/4Mbyte Flash memory
Real Time Clock	Battery-backed crystal-based Real Time Clock
Ethernet Port	IEEE 802.3 Fast Ethernet 10/100 Base-T/TX Ethernet
RS-485 Port 1 Site Network	Half-duplex RS-485 'Slave' port for Site Networking.
RS-485 Port 2 Peripherals	Half-duplex RS-485 'Master' port to control and/or communicate with peripherals
SD Card Port	Multi-function SD Card port
Analog Inputs	1 x Voltage: 0 to 100 VDC 1 x Current: unlimited, based on 50mV Shunt 1 x Reference Potential: -10.6V to +2.5V
Digital Inputs	1 x Breaker Status Detection
Digital Outputs	1 x ON/OFF Interruption
Extra Analogue Inputs	AIM Modules can be added for additional Analogue Inputs
Internal Reference	Built-in ultra-stable 2500mV internal calibration reference
Thermal Sensing / Foldback	Independent on-board thermal sensing IC
Input Impedance	≥20MΩ
Isolation	≤ 1KV
Power Supply	12VDC ±5% 2A – Isolated on board
Operating Temperature	-25oC to +85oC
Humidity	0% to 95% non-condensing
Compliance	RoHS IPC-2221 IPC-6012A Class 2

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