

Hawkeye-100 Cathodic Protection Transformer Rectifier Monitor

CP Transformer Rectifier Remote Monitor

“Delivers Real-time Data to the Desktop - Economically”

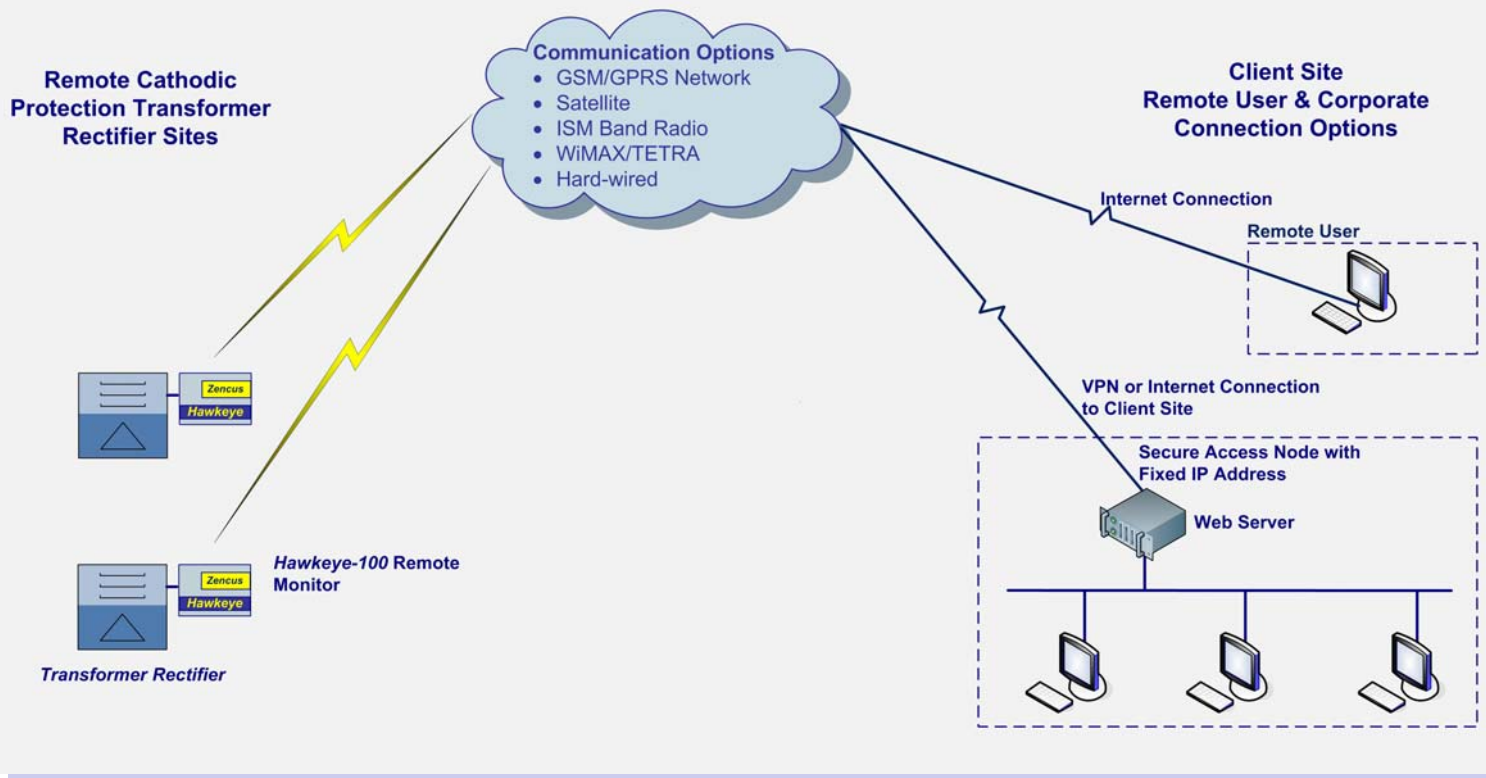
System Overview

The Hawkeye-100 Cathodic Protection Transformer Rectifier monitor system comprises:

- Compact monitoring and data transmission unit with data logger.
- Data transmission using secure cellular network, ISM license free radio, satellite or client TETRA and WiMAX systems.
- Can be hard-wired to existing RTU or DCS.
- Multi-channel monitoring and reporting of all parameters.
- Monitoring frequency configurable from 1 sec to several hours.
- Remote switching to measure Instant-Off potentials with multi-site GPS synchronization.
- Data delivery via Hawkeye Remote User web interface or Hawkeye Corporate web-server.
- Comprehensive, plotting, trending and reporting with Hawkeye software.
- Alarms & diagnostics delivered by e-mail and/or SMS text message.
- Optional geographic display of installation locations on Google Earth.



Hawkeye Unit with Optional Solar Power Pack

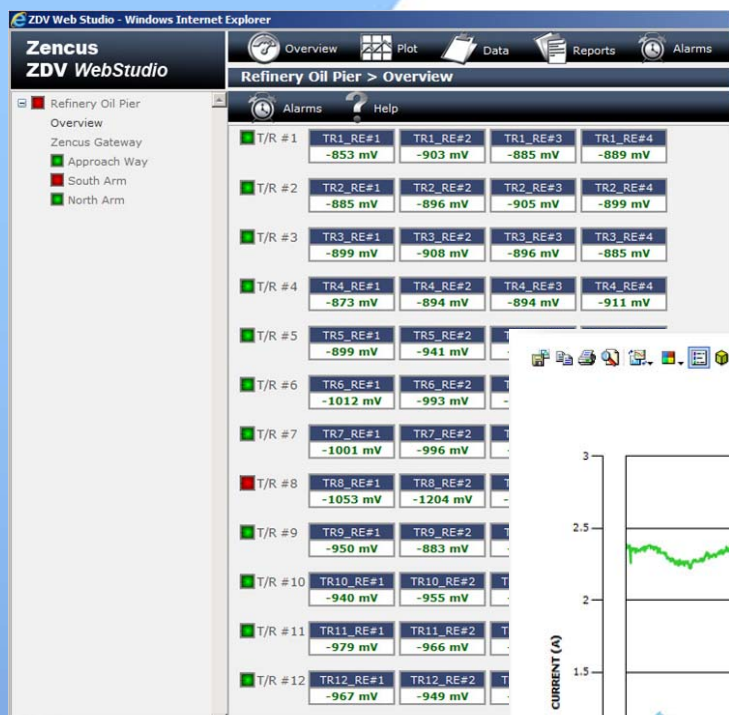


Benefits

- Eliminates routine field visits and associated manpower and costs.
- Allows fast response to system upsets.
- Satellite option can monitor the most remote locations.
- Sophisticated data analysis and reporting software improves workflows.



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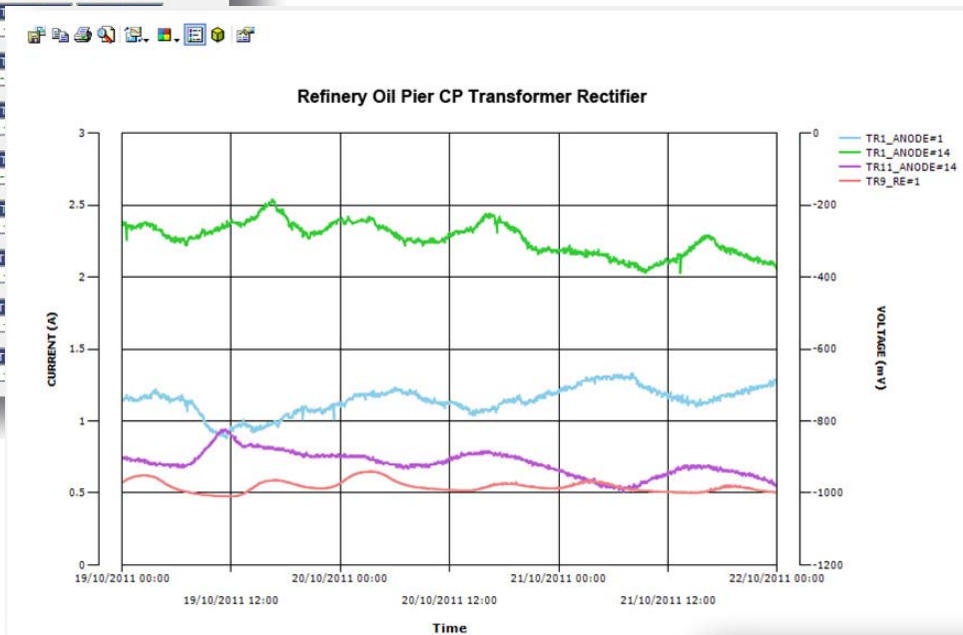


Typical Monitored Parameters

- Rectifier DC voltage.
- Rectifier DC current.
- Reference electrode voltage.
- Instant Off potentials (with GPS synchronization).
- T/R temperature.
- Anode currents.

Data Delivery & User Interface

- Web-based software.
- Intuitive and easy to use.
- Real time Plotting, Graphing & Trending.
- Data export to Excel.
- Alarms by SMS and e-mail.



Specifications

Processor	Low-power mixed signal microcontroller with GPS auto synchronising RTC.
Data Logger	Up to 4 GB non-volatile SD Card memory. (Typically > 1year of data logging).
Auto-restart	Hardware and software Watchdog with auto-restart.
Communication Options	GSM/GPRS mobile phone network Satellite terminals for VSAT/BGAN/LEO/Thuraya. ISM band radio links. Client TETRA and WiMAX systems.
Data Input / Output Options	4-channel Analog Inputs. Typically; 0-100 VDC, 0-100 mV, -10 - +10 V, spare. 4-channel Digital Inputs (opto-isolated) with optional accumulator channel. Optional 4-channel Input expansion modules (configurable). 4-channel relay outputs. Output Communication: Serial RS232/RS485 or Ethernet configured as Modbus Master or Slave. GPS synchronized Instant-Off pipe-to-soil potentials.
Self-Diagnostics	Battery V, Solar V and battery charge monitored with remote report & alarm.
Power Supply	From T/R Unit AC supply with back-up battery or from optional integrated solar power pack.
Enclosure	POLYPRO polyester or to client specification. Protection: NEMA 4X / IP66 Optional Zone 2 certified version for use in Hazardous areas.
Environmental	-20 to 65 C ambient.
Related Applications	Corrosion Probe Monitor. Chemical Injection system monitor and control.