Making Electric Power Safer, More Reliable, and More Economical

SEL-2414 Transformer Monitor

Complete Monitoring and Control of Your Transformer

NEW!

- IEEE Thermal Model
- Through-Fault Monitoring
- acSELerator QuickSet® Graphical Logic Editor
- Onboard acSELerator QuickSet Designer® Template Storage
- RTD/Thermocouple Option
- Form B Digital Output Option
- All Components Certified UL 61010-1

Features and Benefits

Reduce Transformer Downtime
Monitor and protect critical substation assets with comprehensive transformer thermal and through-fault monitoring. Monitor digital transformer alarms and status points. Measure pressure, oil level, temperatures, and process-level signals from transducers. Control cooling fans and other equipment.

Increase Reliability
Built to the same high standards as SEL protective relays, the SEL-2414 withstands vibration, electrical surges, fast transients, and extreme temperatures, meeting stringent industry standards. Compare our specification compliance, price, higher reliability, and worldwide, ten-year warranty to other transformer monitors.

Simplify Analysis
Record transformer sequence of events with the Sequential Events Recorder (SER) function. Capture short-term transformer event waveforms with the event report (oscillography) function. Record transformer trend data with the analog signal profile function.

Easily Integrate With SCADA
Flexible communications options provide easy integration with SCADA systems. Choose from Ethernet (Modbus® TCP, DNP3 LAN/WAN, IEC 61850, Telnet, FTP) and serial (Modbus and DNP3 RTU) protocols.

Choose Flexible I/O Configurations
I/O options include digital or analog outputs as well as digital, analog, RTD, thermocouple, and ac voltage and current inputs.

Program With Flexible Logic
Easily program with powerful logic, math, timer, counter, and edge-trigger functions. Implement logic with SELOGIC® control equations or standard logic gates using the acSELerator QuickSet graphical logic editor.

Create acSELerator QuickSet Designer Templates
Create Designer templates of your settings to hide all settings that do not need to change for common applications. The SEL-2414 retains a copy of the template in internal memory.

Heat (+85°C)
Cold (~40°C)

Electrostatic Shock (15 kV)
Vibration (15 g shock)
SEL-2414 Transformer Monitor

Functional Overview

Feature Overview

- Power supply options include:
  - 24–48 Vdc
  - 110–250 Vdc
  - 110–240 Vac

- Modbus® TCP, Telnet, and FTP, with optional IEC 61850 and DNP3 LAN/WAN

- Optional single or dual Ethernet port

- Positions for optional expansion cards

- 2 digital inputs
- 3 digital outputs

- EIA-232 serial port
- Mirrored Bit's communications Modbus

- Optional fiber-optic serial port

- Optional voltage and current inputs

Ordering Options

- CPU Board
  - Single or dual Ethernet ports
  - EIA-232 rear port (standard)
  - IRIG-B time input (standard)

- Optional Expansion Cards
  - 8 digital inputs
  - 8 digital outputs (electromechanical)
  - 4 digital inputs/4 digital outputs (electromechanical and fast, high-current interrupting outputs)
  - 8 analog inputs
  - 4 analog inputs/4 analog outputs

- Protocol Options
  - DNP3 and DNP3 LAN/WAN
  - IEC 61850 communications

- Conformal Coating