

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)



Vibration
(15 g shock)

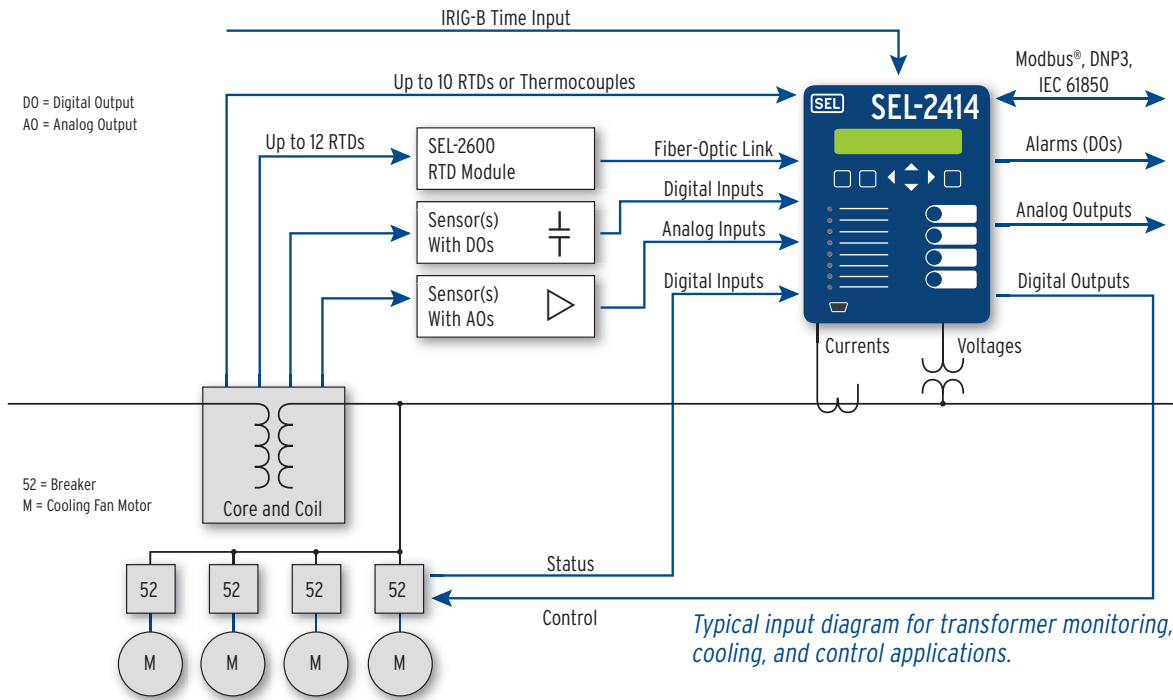


Electrostatic Shock
(15 kV)

Making Electric Power Safer, More Reliable, and More Economical®

SEL-2414 Transformer Monitor

Functional Overview



Feature Overview

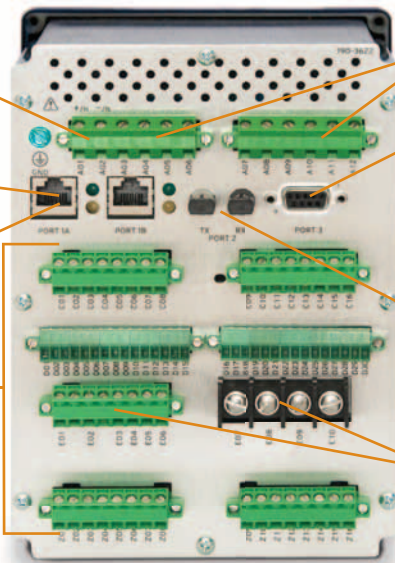
Power supply options include:

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 BITS[®]
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
 - EIA-232 or EIA-485 serial communication
 - 10 RTD or thermocouple inputs
 - 3 ac current/3-phase ac voltage inputs
- Protocol Options
 - DNP3 and DNP3 LAN/WAN
 - IEC 61850 communications
- Conformal Coating



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