



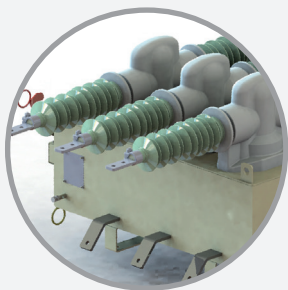
Advanced Load Break Switch Controller

Reliable, Intelligent, and Future-Ready Control for Medium Voltage Networks

Engineered for precision and resilience, our Load Break Switch Controller delivers advanced protection, automation, and seamless communication for medium voltage distribution networks. Designed to ensure efficient fault detection, isolation, and restoration, this controller integrates seamlessly with reclosers and load break switches to enhance grid reliability and operational efficiency.



Key Features & Specifications



Pre-Configured Compatibility

- Designed specifically for Insulect automated Low Break Switchgear models
- Suitable for SF₆ gas and epoxy vacuum technologies



Robust & Weatherproof Construction

- 2mm stainless-steel cabinet for extreme durability
- Fully welded for strength and easy installation
- Double-coated grey finish for corrosion resistance



Reliable Backup Power & Power Management

- Integrated battery provides 72+ hours of backup
- 24 Vdc (12V x 2, series connection)
- Battery lifespan: 3–5 years
- 240 Vac input, converted to 24 Vdc
- Automatic charging for continuous uptime



Advanced Protection & Fault Management

- Configurable overcurrent & earth-fault protection limits damage
- Intelligent detection & sectionalising enable fast isolation/restoration
- Multiple protection functions improve network reliability

Enhanced Communication & Remote Control

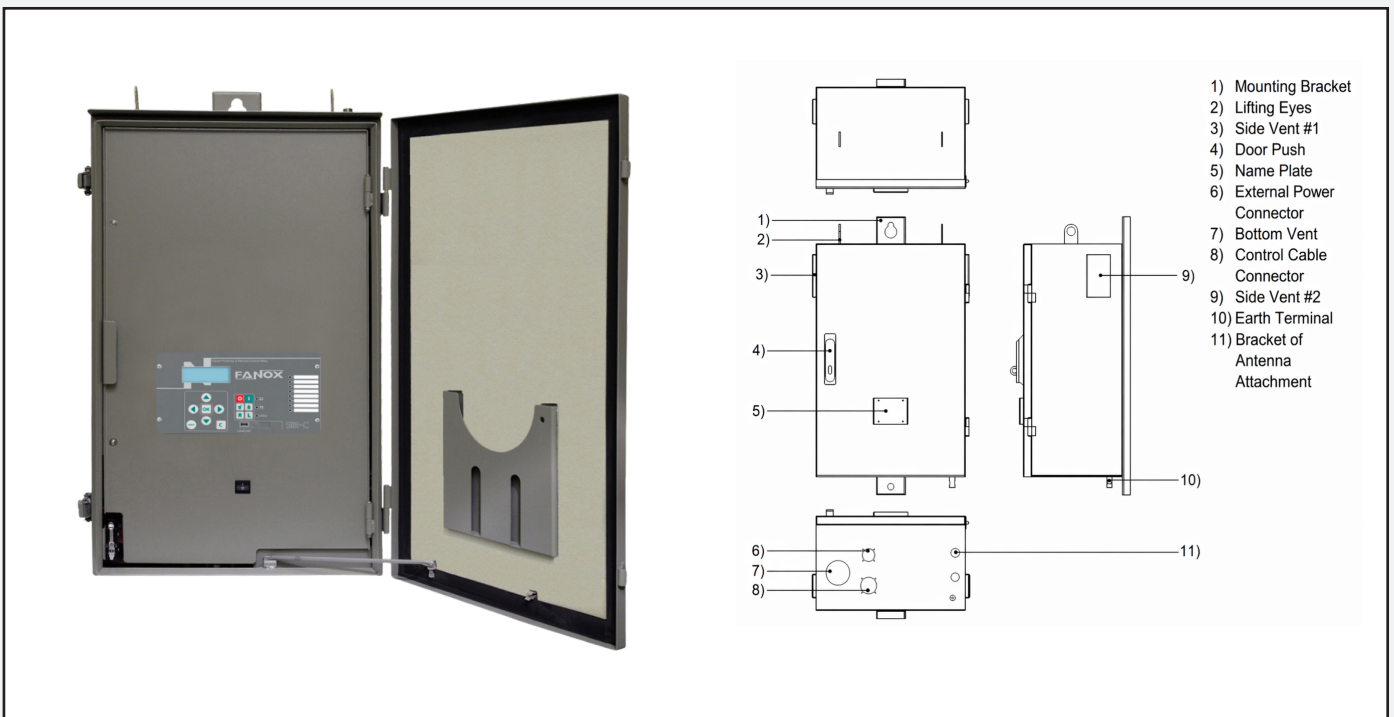
- Multiple interfaces: Micro-USB (local), RS485 (IEC 60870-5-103, Modbus RTU, DNP3.0), and Ethernet (Modbus TCP/IP, DNP3.0 TCP/IP, IEC 60870-5-104, IEC 61850)
- SNTP and integrated web server for time synchronisation and remote access
- Seamless SCADA integration for centralised network management
- User-friendly, programmable settings for flexible grid requirements
- Modem-agnostic compatibility with utility-approved radio, cellular, or satellite modems

Environmental & Operating Conditions

- Operating temperature range: $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$
- Integrated heater and ventilation prevent condensation and maintain stability

Compact & Easy Installation

- Compact footprint for flexible pole-mounted or substation installations
- Pre-configured for quick deployment and seamless switchgear integration
- Integrated stainless-steel grounding terminal for safety and compliance



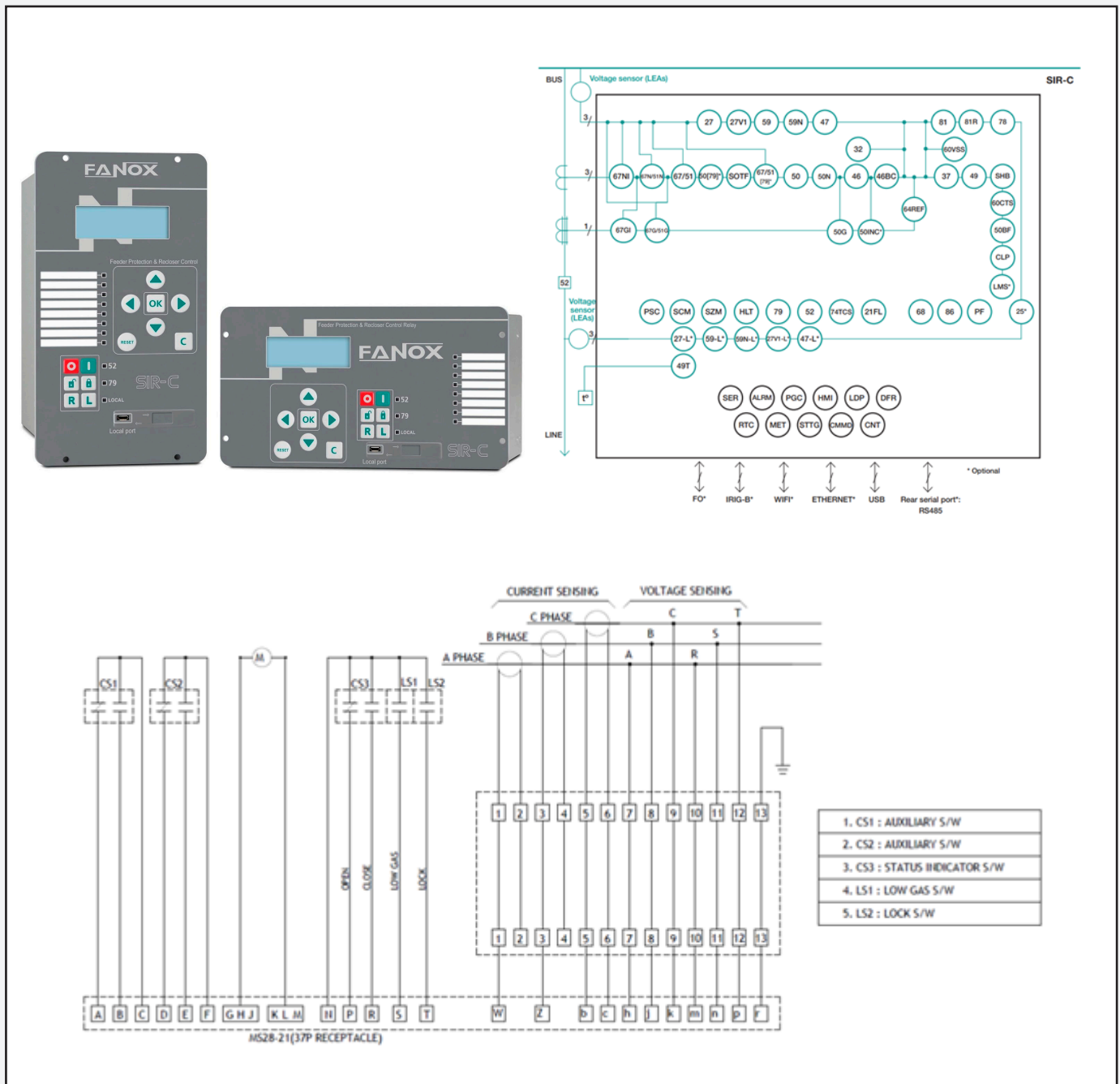
Why Choose Our Controller?

- Reliable, self-powered operation with built-in battery backup
- Supports IEC 61850, Modbus, and DNP3 for remote control and monitoring
- Supports coordinated fault isolation and automatic restoration sequences
- Future-ready design for smart grid and SCADA integration
- Rugged stainless-steel construction for harsh environments

Technical Data

Parameter	Specification
Rated Frequency	50 Hz
Rated Voltage	240 Vac (single-phase), 24 Vdc
Motor Operating Voltage	24 Vdc
Withstand Voltage (Control Circuits to Earth)	2 kV (60 seconds)
Impulse Withstand Voltage (1.2 × 50 μs)	6 kV

Controller Function Diagram



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DISCLAIMER: The information in this document is believed to be correct at the time of publication. The user is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. No reliance may be placed on any such information or data without first contacting Insulect Australia to clarify individual user requirements.

