

8851-LC-MT

Installation and Verification Reference

The GE Intelligent Platforms 8851-LC-MT is a PAC8000 SafetyNet controller for safety-related control applications. The manufacturer safety manual identifies it as sharing the PAC8000 controller hardware platform while using constrained operation and additional diagnostics to support the SafetyNet safety function.

Manufacturer	GE Intelligent Platforms
Complete model	8851-LC-MT
Product description	PAC8000 SafetyNet Controller
Prepared by	Apter Power
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APTER POWER SALES TEAM

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Three interface paths, one controlled configuration.

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8851-LC-MT

1. System role

The controller executes the approved safety application, exchanges safety I/O data with PAC8000 SafetyNet I/O modules and supervises faults. When it detects a dangerous fault, it initiates a controlled shutdown so the I/O modules enter their de-energized failsafe state and diagnostic information is retained for analysis.

What the product handles

Safety application logic, controller communications and SafetyNet I/O data. Physical discrete or analog field signals are acquired or driven by the connected SafetyNet I/O modules, not directly by the controller.

Required companion components

PAC8000 SafetyNet I/O modules, 8750-CA-NS or 8751-CA-NS controller carrier, approved PAC8000 power and carrier hardware, SafetyNet Logic Workbench and the site safety application documentation.

Where it is used

SIL 2 safety-related control in process plants, including emergency-shutdown and fire-and-gas functions where the approved PAC8000 SafetyNet architecture is applied.

Pre-installation record

Parameter	Verified value
Identity	Record complete model 8851-LC-MT and every revision/suffix from the nameplate
Evidence	Retain the named manufacturer publication and site-approved drawings
Configuration	Back up the approved controller, network or module configuration
Connections	Label cables, terminals, module positions and field wiring
Commissioning	Define a point-by-point or communication verification plan

2. Installation and commissioning controls

Recommended verification sequence

Parameter	Verified value
1 - Identify	Match the complete nameplate and physical construction
2 - Isolate	Follow site lockout, electrical-safety and ESD procedures
3 - Compare	Confirm companion hardware, cables, termination and revision compatibility
4 - Install	Use manufacturer mounting, grounding and environmental requirements
5 - Configure	Restore only the approved configuration and documented settings
6 - Test	Verify communications, diagnostics and every affected process or safety function
7 - Release	Record results and obtain the required site authorization

Model-specific precautions

- Treat configuration, application-program and firmware changes as safety-system changes under the site's functional-safety lifecycle.
- Use only the documented controller carrier and compatible SafetyNet I/O modules for the approved system architecture.
- After service, prove the failsafe response, diagnostics, I/O communication and every affected safety function before return to operation.

Manufacturer publications

Manufacturer publication	Source access
GE Intelligent Platforms Safety Manual for the MTL8000 Safety AXE	Open source in a new window

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