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Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / EUROTHERM

Schneider Electric / Eurotherm 025451 900 EPC PSU Board

Eurotherm 025451 900 EPC Power Supply Board The Eurotherm 025451 is the power-supply unit (PSU) board for the 900 EPC programmer/controller. The 900 EPC instrument it powers is a 1/4 DIN high-stability communicating process controller/programmer with plug-in I/O, thermocouple/RTD/pyrometer linearizations, and IP65 facia. Instrument supply is 85 to 264 Vac at 48-62 Hz or 360-440 Hz overalimited voltage range, typically 20 W. The 025451 is a service board, not a standalone controller. Repair/replacement of 900 EPC internal PSU; restoring 85-264 Vac operation of 900 Series programmers; MRO of Eurotherm 900 EPC panels. The Eurotherm 025451 is the power-supply unit (PSU) board for the 900 EPC programmer/controller. The 900 EPC instrument it powers is a 1/4 DIN high-stability communicating process controller/programmer with plug-in I/O, thermocouple/RTD/pyrometer linearizations, and IP65 facia. Instrument supply is 85 to 264 Vac at 48-62 Hz or 360-440 Hz overalimited voltage range, typically 20 W. The 025451 is a service board, not a standalone controller. Repair/replacement of 900 EPC internal PSU; restoring 85-264 Vac operation of 900 Series programmers; MRO of Eurotherm 900 EPC panels.

**MODEL****Schneider Electric
/ Eurotherm 25451****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****25451****LISTING**<https://aumictechlabs.com/products/25451-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schneider Electric/Eurotherm 025451 900 EPC PSU Board is a dedicated power supply unit for Eurotherm 900 series controllers and associated modules. It delivers stable, reliable power to industrial process control systems managing temperature, pressure, and flow applications. This board forms part of the Eurotherm 900 EPC Programmer Controllers range, engineered for high stability and accuracy across diverse environmental and operational conditions.

Technical Specifications

Control Outputs Up to 4 isolated control outputs supporting multiple output types

Triac outputs: 264V, 0.75A maximum into resistive load; 85V RMS minimum; 2 mA leakage at 264V AC 50 Hz

Logic outputs: 20 mA at 18V minimum

Relay outputs: 264V, 2A maximum (3A for paired configuration) into resistive load with spark suppression; 50V RMS or 24V DC minimum switching voltage; 2 mA leakage at 264V AC 50 Hz

On/off and time proportional operation modes

Alarm Capabilities Up to 8 isolated relay alarms with 264V, 2A rating (3A paired); 50V RMS or 24V DC minimum switching voltage

Hysteresis: 0.1% to 50% of parameter span

Alarm types: Full Scale High/Low, Deviation High/Low, Band High/Low, Rate of Change of PV and Output, Sensor Break, and custom parameter/controller failure detection

Alarms configurable across complete instrument range

Programmer Functions Maximum 20 separate programs (50 in programmer plus variant) Up to 450 program segments with free-format allocation

Ramp rate: 0.01°C/hr resolution; settable per hour, minute, or second (one display unit to span)

Dwell time: Hours (9999.9), minutes (9999.9), or seconds (9999.9)

Input Processing Thermocouple standards: BS4937(1973), DIN43710, ASTM E230(1972)

Thermocouple linearization accuracy: $\pm 0.2^{\circ}\text{C}$

Cold junction compensation: Internal or external, 0–100°C variable range

Key Features Multiple isolated control and alarm outputs for flexible system configuration

Precision thermocouple input linearization and CJC support

Extensive programming capability with 450-segment capacity

Wide voltage switching range accommodates AC and DC loads

Typical Applications Industrial process control systems requiring multi-output control, alarm management, and programmable temperature profiling across manufacturing, thermal processing, and laboratory environments.

Compatibility & Integration Designed for integration with Eurotherm 900 series controllers and EPC Programmer Controllers. Supports isolated relay, triac, and logic outputs for direct load control and alarm signaling.

Features & description

From manufacturer datasheet

Features

- 025451 900 EPC PSU board
- Host instrument 85-264 Vac, typically 20 W
- Host frequency 48-62 Hz or 360-440 Hz (limited voltage)
- Host facia IP65; panel cut-out 92 × 92 mm
- Host plug-in I/O and front-panel/comms configuration
- Sibling PSU listing 022904 power supply module in same 900 family

025451 Characteristics / Specifications

PARAMETER	VALUE
Model	025451
Manufacturer	Eurotherm (Schneider Electric)
Instrument Type	900 EPC PSU Board
Series	900 EPC / 900 Series
Alias	025451; 900 EPC PSU
Host Instrument	Eurotherm 900 EPC programmer/controller
Host Supply Voltage	85 to 264 Vac
Host Supply Frequency	48 to 62 Hz or 360 to 440 Hz over limited voltage range
Host Power Consumption	typically 20 W in operation
Host Operating Temperature	0 to 50 C; 0 to 45 C when more than 4 modules used
Host Storage Temperature	-10 to +75 C
Host Relative Humidity	5 to 95 percent noncondensing
Host Panel Sealing	IP65 facia with gasket in specified cut-out
Host Panel Cutout	92 × 92 mm +0.8 / -0 mm DIN 43718 class
Host Mounting	plug-in with panel clamps
Host Display Family	80 × 64 dot matrix; six-key instrument panel
Host Modes	operator and configuration
Host Isolation	reinforced isolation between PV, mains input, and other I/O (900 EPC datasheet)
Host Safety	EN61010 category II, pollution degree 2; transients on mains not to exceed 2.5 kV
Host Process Voltage Span	maximum 20 V in +/-10 V
Host Current Span	0 to 20 mA with 5 ohm resistor to 0-100 mV
Host Millivolt Span	-20 to +100 mV
Host RTD	BS 1904 / DIN 43760 Pt100 / JIS 100; 3-wire; 18 µA bulb current class
Host TC Linearization	standard thermocouples; internal CJC greater than 30:1

PARAMETER	VALUE
Host User Screens	up to 8 pages
Host Logic	12 steps combinational AND/OR/XOR/LATCH
Host Timers	4
Host Totalisers	4
Ship Weight Listing	3 lbs
Related Module	022904 power supply module 900 Series
Communications Host	digital communications always provided on 900 EPC
Software Host	IPS/IPSG PC support for 900 EPC Notes True PSU board with sparse board-only ratings. Rows combine the 025451 identity with verified 900 EPC host supply and environmental tables. Do not invent board rail voltages. Confirm the PSU matches the 900 EPC chassis revision.
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General Specifications & Supplementary Characteristics

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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.