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Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / EUROTHERM

Schneider Electric / Eurotherm 818P4 Temperature Controller / Programmer

Eurotherm 818P4 1/4 DIN Temperature / Process Programmer The Eurotherm 818P4 is a 1/4 DIN (96 × 96 mm) microprocessor temperature/process programmer in the 818 series. 818S is the basic single-loop PID controller; 818P stores one program of 8 ramps and 8 dwells; 818P4 stores four such programs; 818P15 stores fifteen. Plug-in I/O cover thermocouple, RTD, pyrometer, and linear process inputs with relay, triac, logic, or isolated analog outputs. Dual display, self-tune and adaptive tune. Supply 85 to 264 Vac (or 24 V ac/dc option), typically 8.5 W. The Eurotherm 818P4 is a 1/4 DIN (96 × 96 mm) microprocessor temperature/process programmer in the 818 series. 818S is the basic single-loop PID controller; 818P stores one program of 8 ramps and 8 dwells; 818P4 stores four such programs; 818P15 stores fifteen. Plug-in I/O cover thermocouple, RTD, pyrometer, and linear process inputs with relay, triac, logic, or isolated analog outputs. Dual display, self-tune and adaptive tune. Supply 85 to 264 Vac (or 24 V ac/dc option), typically 8.5 W. Furnace and process temperature profiles; four stored recipes of 8 ramps / 8 dwells; isolated analog output to valves or VFDs; RS-232/RS-485 supervisory links; retrofit of 818P4 programmer panels.



MODEL

**Schneider Electric
/ Eurotherm 818P4**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

818P4

LISTING

<https://aumictechlabs.com/products/818p4-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schneider Electric/Eurotherm 818P4 is a 1/4 DIN digital temperature and process controller/programmer engineered for precise thermal process management in industrial applications. It delivers advanced programming capabilities with dual fluorescent 4½-digit displays for simultaneous setpoint and measured value monitoring, combined with PID control featuring self-tuning and adaptive tuning algorithms for optimal loop performance.

Technical Specifications

Form Factor & Display 1/4 DIN panel mount Dual fluorescent 4½-digit displays

Programming Capability Stores up to 4 independent programs Each program supports 8 ramp/dwell segments Programs linkable for extended sequences Up to 999 program repetitions or continuous run mode

Control & Tuning PID control with self-tuning and adaptive tuning Variable overshoot inhibition Adjustable holdback for loads with propagation delays Operation in °F, °C, or process units

Input Configuration Choice of 17 different thermocouple types, RTD, or process inputs Linear process inputs for standard signal ranges Remote setpoint, trim, or output power limit inputs Analog input for remote signal representation Input adapter available for signal ranges exceeding 50 mV

Sensor break detection with adjustable sensor break power

Output Configuration Up to 4 multi-purpose configurable output channels Configurable as relay, triac, logic, or analog outputs Outputs 1 and 2 support heat/cool control Optional valve positioner configuration

Analog retransmission of measured value, setpoint, error, or output level

Program event relay outputs for specific program segments

Alarms Up to 2 configurable alarms Configurable as Full Scale High or Energised modes

Communications Fully isolated bidirectional EIA-232-D or EIA-485 (EIA-422-A) digital communications Supports Eurotherm Bi-Synch, J-bus, and Modbus protocols Transmission speed configurable between 300 and 9600 baud Optional separate digital communication interface board

Power Supply 85 to 264 V a.c. ~ or 17 to 40 V a.c. ~ or 20 to 40 V d.c. Supply frequency: 48 to 52 Hz or 58 Hz

Key Features Front panel disable via digital input or communications interface User-friendly configuration and monitoring interface

Reliable and repeatable performance across complex thermal processes Enhanced efficiency and product quality in industrial environments

Typical Applications Complex industrial thermal process control requiring programmable setpoint profiles, heat/cool regulation, and remote monitoring capabilities.

Compatibility & Integration Serial communications via RS232 or RS485 enable integration with supervisory control systems, data logging platforms, and networked industrial environments supporting standard Modbus, J-bus, or Eurotherm Bi-Synch protocols.

Features & description

From manufacturer datasheet

Features

- 1/4 DIN programmer; four programs of 8 ramps and 8 dwells each
- Self-tune and adaptive tune; dual display
- Plug-in input/output modules
- Relay max 264 V 2 A; triac 1 A / 264 V class
- Supply 85-264 Vac 48-62 Hz, typically 8.5 W
- Optional digital RS-232 or RS-485 9600 baud class

818P4 Characteristics / Specifications

PARAMETER	VALUE
Model	818P4
Manufacturer	Eurotherm
Instrument Type	Temperature / Process Controller Programmer
Series	818
Alias	818P4; 818 P4
Panel Size	96 × 96 mm (1/4 DIN)
Supply Voltage	85 to 264 Vac
Supply Frequency	48 to 62 Hz
Power Consumption	8.5 W typical (German handbook)
Low Voltage Option	24 V ac/dc (order code SN/24 examples)
Relay Output Max	264 V, 2 A class
Triac Output	85 to 264 V, 1 A class (handbook)
Logic Output	galvanically isolated logic (handbook)
Analog Output Example	isolated reverse-acting 4-20 mA (R4MA20)
Communications Example	digital RS232 or RS485, 9600 baud
Control Modes	PID, PI, PD, P, or on/off (series)
Tune	self-tune and adaptive tune
Display	dual digital
Program Count	4 stored programs
Ramps Per Program	8
Dwells Per Program	8
Programmer Siblings	818P one program; 818P15 fifteen programs
Input Thermocouple Example	Type K -270 to 1372 C instrument / -250 to 1200 C display class
Input Pt1	-200 to 850 C instrument / -200 to 800 C display (code 70)
Input Linear	-9999 to 19999 (code 00)

PARAMETER	VALUE
Input Square Root	-9999 to 19999 (code 92)
Type N	-270 to 1300 C class
Type R	-50 to 1767 C class
Type S	-50 to 1767 C class
Type B	400 to 1820 C class
W5Re W26Re	10 to 2320 C class
Cold Junction	internal or external 0 to 100 C
Integral Derivative Units	seconds or minutes (software option S/M)
Manual Key	enabledEor disabledDConnectors: screw terminals
Ramp Scale Option	setpoint units per minute
Dwell Scale Option	dwell in hours
Holdback Option	band deviation holdback
Example Full Code	818P4/TC/R4MA20/.../232/96/SN/...
Safety EMC	Low Voltage and EMC directives (listings) Notes Specs from Eurotherm 818 datasheet/handbook and 818P4 order-code listings. 818P4 is the four-program programmer, not 818S (controller only) or 818P (single program). Read the installed code for input curve, outputs, and 85-264 Vac versus 24 V.

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	
Technical Specifications	
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Input Thermocouple Example	Type K -270 to 1372 C instrument / -250 to 1200 C display class
Input Pt100	-200 to 850 C instrument / -200 to 800 C display (code 70)
Input Linear	-9999 to 19999 (code 00)
Input Square Root	-9999 to 19999 (code 92)

PARAMETER	VALUE
Type N	-270 to 1300 C class
Type R	-50 to 1767 C class
Type S	-50 to 1767 C class
Type B	400 to 1820 C class
W5Re W26Re	10 to 2320 C class
Cold Junction	internal or external 0 to 100 C
Integral Derivative Units	seconds or minutes (software option S/M)
Manual Key	enabled E or disabled D
Connectors	screw terminals
Ramp Scale Option	setpoint units per minute
Dwell Scale Option	dwell in hours
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Notes

Specs from Eurotherm 818 datasheet/handbook and 818P4 order-code listings. 818P4 is the four-program programmer, not 818S (controller only) or 818P (single program). Read the installed code for input curve, outputs, and 85-264 Vac versus 24 V.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.