

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / EUROTHERM

Schneider Electric / Eurotherm 808/R1/R1/NO/NO/QLS/(AJHF130) Digital Controller

Schneider Electric / Eurotherm Industrial Controllers & PLCs. Resolution: 0.67 μ V,
Accuracy: 0.25% and 0.15%.

**MODEL****Schneider Electric / Eurotherm
808/R1/R1/NO/NO/QLS/(AJHF130)****CALIBRATION****Available
on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****808/R1/R1/NO/NO/QLS/(AJHF130)****LISTING**<https://aumictechlabs.com/products/808-r1-r1-no-no-qls-ajhf130-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Schneider Electric Eurotherm 808/R1/R1/NO/NO/QLS/(AJHF130) is a 1/8 DIN digital PID controller engineered for precision temperature and process control across plastics, heat treatment, and medical applications. It delivers advanced closed-loop regulation with configurable overshoot inhibition and selectable cooling algorithms, serving ovens, furnaces, incubators, and sterilizers. The instrument combines dual LED displays for simultaneous Process Variable and Setpoint indication with a user-configurable front panel interface featuring 4-button operation and parameter-hiding security. Technical Specifications Format: 1/8 DIN Model:

808/R1/R1/NO/NO/QLS/(AJHF130) Control Type: Digital PID with EM-1 algorithm and variable

overshoot inhibition Displays: Dual LED; Process Variable and Setpoint simultaneous indication
Input Configuration: J Thermocouple (32–800°F); configurable for Type J, K, L, R, S, T, Platinel II thermocouples; 3-wire RTD; linear process input with 2-point flexible scaling Display Range: –999 to 9999 in process units (full-scale configurable) Input Resolution: 0.67 μ V Input Scan Rate: 8 times per second Calibration Accuracy: 0.25% and 0.15% CJC Rejection: 20:1 Output 1: Relay (R1); 264 V, 2 A maximum (resistive load, contact suppression) Output 2: Relay (R1); configurable as cooling or alarm channel; 264 V, 2 A maximum (alarm channel cannot be triac) Alarms: Configurable full-scale low, full-scale high, or deviation band alarm Digital Communications: Optional EIA-232-D or EIA-422-A for computer supervision and control Self-Tuning: Integral automatic PID parameter determination from ambient or setpoint Setpoint Programming: Ramp-to-setpoint; optional four-segment ramp-dwell-ramp-dwell profiling with up to 200 program cycles or continuous operation Cooling Algorithms: Four selectable types Operating Modes: Automatic (closed loop) and Manual via A/M button Key Features Linear process input with fully flexible, non-interactive 2-point scaling Self-tune facility automatically determines PID parameters Ramp-to-setpoint and optional setpoint profiling for repeatable process execution User-selectable parameter hiding for operator interface configuration Typical Applications Plastics processing, heat treatment, medical device sterilization, laboratory incubation. Compatibility & Integration Optional EIA-232-D and EIA-422-A serial interfaces enable integration with supervisory control systems and computer-based monitoring.

Features & description

From manufacturer datasheet

Features

- 1/8 DIN vertical 808 (847 horizontal); IP54 facia, optional gasket NEMA 3
- This code: relay heat, relay cool/alarm slot, QLS linear + self-tune
- Relay 264 Vac 2 A resistive; triac 264 Vac 1 A class
- Accuracy 0.25 percent of reading +1 LSD or +1 C; CMR greater than 120 dB
- Optional EIA-232 or 4-wire EIA-485 (not fitted on NO/NO comms)
- Plug-in from sleeve; 0.55 kg including sleeve and clamps

808R1R1NONOQLSAJHF130 Characteristics / Specifications

PARAMETER	VALUE
Model	808/R1/R1/NO/NO/QLS/(AJHF130)
Manufacturer	Eurotherm
Instrument Type	Digital PID Temperature / Process Controller
Series	808 / 847 / 809 / 849
Alias	808; 808/R1/R1/NO/NO/QLS/(AJHF130)
Panel Size	1/8 DIN vertical, 48 × 96 mm class
Panel Cutout Width	45 mm (+0.60 / -0.00)
Panel Thickness Max	6 mm
Panel Sealing	IP54 EN 60529; NEMA 3 with gasket LA 022339
Operating Temperature	0 to 50 C
Relative Humidity	5 to 95 percent noncondensing
Altitude Limit	not suitable above 2000 m; not for explosive or corrosive atmospheres
Supply Voltage	85 to 264 Vac
Supply Frequency	48 to 62 Hz
Power Consumption	5 W maximum
Relay Rating	264 Vac 2 A resistive max; 10 Vdc 100 mA min
Relay Forms	channels 1 and 2 form C; channel 3 alarm formAchange-over
Triac Rating	264 Vac 1 A resistive max; 80 Vac 50 mA min
Suppression Leakage	less than 2 mA at 264 Vac 50 Hz
Logic Output	18 V at 10 mA (20 mA max), non-isolated
DC Output	0 to 20 mA (600 ohm max) or 0 to 10 V (500 ohm min), non-isolated
Fixed Digital Input	contact closure, non-isolated
Communications Family	EIA-232 or 4-wire EIA-485 isolated (not fitted on this NO/NO)
Address Range	00 to 99
Baud Rates	300, 600, 1200, 2400, 4800, 9600, 19200

PARAMETER	VALUE
Character Format	7 data, even parity, 1 stop
Weight	0.55 kg (1.2 lb) including sleeve and mounting clamps
ADC Resolution	12 bit (0.7 mV)
Sample Rate	125 ms (8 measurements per second)
Common Mode Rejection	greater than 120 dB at 264 Vac, 50/60 Hz
Calibration Accuracy	0.25 percent of reading +1 LSD or +1 C
CJC Internal Rejection	greater than 20:1
CJC External	configurable 45 C or 50 C
Thermocouple Types	J, B, E, N, K, L, R, S, PL2, T
RTD Linearisation	Pt100 DIN 43760 / BS 1904 3-wire
QLS Linear Display	scaleable -999 to 9999 (or -99.9 to 999.9 tenths)
Linear Adapters Family	-10 to 50 mV standard; -40 to 200 mV; -0.2 to 1 V; -1 to 5 V; -2 to 10 V; -5 to 25 V; -4 to 20 mA
Proportional Band	1 to 8100 F class or 1 to 300 percent of range; linear 1 to 9999 units
Integral Time	1 to 8000 seconds or OFF
Derivative Time	1 to 999 seconds or OFF
Ramp To Setpoint	0.01 to 99.99 units per minute
This Output	relay R1 (cool or alarm slot)
This Alarm Module	not fitted (NO)
This Communications	not fitted (NO)
This Input Option	QLS linear process input and self-tuning
This Config Code	AJHF130
Safety	EN 61010 installation category II, pollution degree 2 Notes Specs from Eurotherm 808/847 installation and operation handbook (HA133613 family). This listing is R1/R1/NO/NO/QLS with configuration AJHF130. Confirm sensor/linear range, display units, and whether output 2 is cool versus alarm on the side-label code.
This code	relay heat, relay cool/alarm slot, QLS linear + self-tune
Humidity	5 to 95 percent noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	5 to 95 percent noncondensing
Relative Humidity	5 to 95 percent noncondensing
Altitude Limit	not suitable above 2000 m; not for explosive or corrosive atmospheres
Supply Voltage	85 to 264 Vac
Supply Frequency	48 to 62 Hz
Power Consumption	5 W maximum
Relay Rating	264 Vac 2 A resistive max; 10 Vdc 100 mA min
Relay Forms	channels 1 and 2 form C; channel 3 alarm formAchange-over
Triac Rating	264 Vac 1 A resistive max; 80 Vac 50 mA min
Suppression Leakage	less than 2 mA at 264 Vac 50 Hz
Logic Output	18 V at 10 mA (20 mA max), non-isolated
DC Output	0 to 20 mA (600 ohm max) or 0 to 10 V (500 ohm min), non-isolated
Fixed Digital Input	contact closure, non-isolated
Communications Family	EIA-232 or 4-wire EIA-485 isolated (not fitted on this NO/NO)
Address Range	00 to 99
Baud Rates	300, 600, 1200, 2400, 4800, 9600, 19200
Character Format	7 data, even parity, 1 stop
Weight	0.55 kg (1.2 lb) including sleeve and mounting clamps
ADC Resolution	12 bit (0.7 mV)
Sample Rate	125 ms (8 measurements per second)
Common Mode Rejection	greater than 120 dB at 264 Vac, 50/60 Hz
Calibration Accuracy	0.25 percent of reading +1 LSD or +1 C
CJC Internal Rejection	greater than 20:1

PARAMETER	VALUE
CJC External	configurable 45 C or 50 C
Thermocouple Types	J, B, E, N, K, L, R, S, PL2, T
RTD Linearisation	Pt100 DIN 43760 / BS 1904 3-wire
QLS Linear Display	scaleable -999 to 9999 (or -99.9 to 999.9 tenths)
Linear Adapters Family	-10 to 50 mV standard; -40 to 200 mV; -0.2 to 1 V; -1 to 5 V; -2 to 10 V; -5 to 25 V; -4 to 20 mA
Proportional Band	1 to 8100 F class or 1 to 300 percent of range; linear 1 to 9999 units
Integral Time	1 to 8000 seconds or OFF
Derivative Time	1 to 999 seconds or OFF
Ramp To Setpoint	0.01 to 99.99 units per minute
This Output	relay R1 (cool or alarm slot)
This Alarm Module	not fitted (NO)
This Communications	not fitted (NO)
This Input Option	QLS linear process input and self-tuning
This Config Code	AJHF130
Safety	EN 61010 installation category II, pollution degree 2 Notes Specs from Eurotherm 808/847 installation and operation handbook (HA133613 family). This listing is R1/R1/NO/NO/QLS with configuration AJHF130. Confirm sensor/linear range, display units, and whether output 2 is cool versus alarm on the side-label code.

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	
Specifications	
PARAMETER	VALUE
Model	808/R1/R1/NO/NO/QLS/(AJHF130)
Manufacturer	Eurotherm
Instrument Type	Digital PID Temperature / Process Controller
Series	808 / 847 / 809 / 849
Alias	808; 808/R1/R1/NO/NO/QLS/(AJHF130)
Panel Size	1/8 DIN vertical, 48 x 96 mm class
Panel Cutout Width	45 mm (+0.60 / -0.00)
Panel Thickness Max	6 mm
Panel Sealing	IP54 EN 60529; NEMA 3 with gasket LA 022339
Operating Temperature	0 to 50 C
Relative Humidity	5 to 95 percent noncondensing
Altitude Limit	not suitable above 2000 m; not for explosive or corrosive atmospheres
Supply Voltage	85 to 264 Vac
Supply Frequency	48 to 62 Hz
Power Consumption	5 W maximum
Relay Rating	264 Vac 2 A resistive max; 10 Vdc 100 mA min
Relay Forms	channels 1 and 2 form C; channel 3 alarm formAchange-over
Triac Rating	264 Vac 1 A resistive max; 80 Vac 50 mA min
Suppression Leakage	less than 2 mA at 264 Vac 50 Hz
Logic Output	18 V at 10 mA (20 mA max), non-isolated
DC Output	0 to 20 mA (600 ohm max) or 0 to 10 V (500 ohm min), non-isolated
Fixed Digital Input	contact closure, non-isolated
Communications Family	EIA-232 or 4-wire EIA-485 isolated (not fitted on this NO/NO)
Address Range	00 to 99
Baud Rates	300, 600, 1200, 2400, 4800, 9600, 19200

PARAMETER	VALUE
Character Format	7 data, even parity, 1 stop
Weight	0.55 kg (1.2 lb) including sleeve and mounting clamps
ADC Resolution	12 bit (0.7 mV)
Sample Rate	125 ms (8 measurements per second)
Common Mode Rejection	greater than 120 dB at 264 Vac, 50/60 Hz
Calibration Accuracy	0.25 percent of reading +1 LSD or +1 C
CJC Internal Rejection	greater than 20:1
CJC External	configurable 45 C or 50 C
Thermocouple Types	J, B, E, N, K, L, R, S, PL2, T
RTD Linearisation	Pt100 DIN 43760 / BS 1904 3-wire
QLS Linear Display	scaleable -999 to 9999 (or -99.9 to 999.9 tenths)
Linear Adapters Family	-10 to 50 mV standard; -40 to 200 mV; -0.2 to 1 V; -1 to 5 V; -2 to 10 V; -5 to 25 V; -4 to 20 mA
Proportional Band	1 to 8100 F class or 1 to 300 percent of range; linear 1 to 9999 units
Integral Time	1 to 8000 seconds or OFF
Derivative Time	1 to 999 seconds or OFF
Ramp To Setpoint	0.01 to 99.99 units per minute
This Output 1	relay R1 (heat)
This Output 2	relay R1 (cool or alarm slot)
This Alarm Module	not fitted (NO)
This Communications	not fitted (NO)
This Input Option	QLS linear process input and self-tuning
This Config Code	AJHF130
Safety	EN 61010 installation category II, pollution degree 2

Notes

Specs from Eurotherm 808/847 installation and operation handbook (HA133613 family). This listing is R1/R1/NO/NO/QLS with configuration AJHF130. Confirm sensor/linear range, display units, and whether output 2 is cool versus alarm on the side-label code.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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