

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / EURO THERM

Schneider Electric / Eurotherm 2116/CC/VH/ENG PID Temperature Controller

The Schneider Electric/Eurotherm 2116/CC/VH/ENG is a versatile PID temperature controller designed for precise temperature management in a variety of industrial applications. It features advanced control algorithms and configurable I/O options to optimize process efficiency and stability. The controller supports various sensor inputs, ensuring compatibility with different temperature sensing devices. Its user-friendly interface and clear display facilitate easy setup and monitoring of temperature parameters.



MODEL

**Schneider Electric
/ Eurotherm
2116/CC/VH/ENG**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

2116/CC/VH/ENG

LISTING

<https://aumictechlabs.com/products/2116-cc-vh-eng-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schneider Electric/Eurotherm 2116/CC/VH/ENG is a 1/16 DIN (48 mm × 48 mm) PID temperature controller engineered for precision thermal management in industrial heating and cooling systems. The unit delivers both PID and On/Off control modes with self-tuning algorithms, ramp-and-soak profile generation, and advanced sensor diagnostics. It accepts thermocouples (J, K, L, R, B, N, T, S, Platinell II), 100 Ω Pt RTDs, and linear mV inputs (-12 to +80 mV) with configurable scaling and automatic cold-junction compensation. Two independently configurable

outputs - one logic output (9 Vdc, 12 mA) and one relay output (2 A, 264 V ac resistive) - support heating, cooling, or alarm functions. The controller features three internal soft-alarm channels with HOME screen messaging, IP65/NEMA 4X panel sealing, and operates from 85 to 264 VAC (VH) at maximum 5 W consumption. English-language interface with LED display and screw-terminal connectivity (0.5–1.5 mm wire, 0.4 Nm torque). Supplied snubber (22 nF/100 Ω) protects relay contacts in inductive applications. Technical Specifications Model: Schneider

Electric/Eurotherm 2116/CC/VH/ENG Form Factor: 1/16 DIN panel mount (48 mm $\times$ 48 mm)

Enclosure Rating: IP65 (EN 60529) / NEMA 4X Supply Voltage: 85–264 VAC Power Consumption:

5 W maximum Control Modes: PID, On/Off with self-tuning algorithms Input Impedance: 1.5 k Ω , 5 k Ω , 15 k Ω (configurable) Output 1 (Logic): 9 Vdc, 12 mA (non-isolated) Output 2 (Relay): 2 A, 264

V ac resistive Terminal Wire Size: 0.5–1.5 mm (16–22 AWG), tightening torque 0.4 Nm Key Features

Accepts 9 thermocouple types plus 100 Ω Pt RTD and custom linear inputs Automatic or external cold-junction compensation (0 $^{\circ}$ C, 45 $^{\circ}$ C, 50 $^{\circ}$ C) Ramp-and-soak dwell timer with internal profile

generation Three configurable soft-alarm channels with HOME screen display Sensor-break detection on linear inputs Included 22 nF/100 Ω snubber for inductive-load protection Typical

Applications Industrial ovens and kilns Chiller and refrigeration units Sterilization and laboratory equipment Heat-treatment processes requiring profile control Compatibility & Integration

DeviceNet™ and Modbus protocol support available in alternate configurations for data-logging and supervisory control system integration.

Features & description

From manufacturer datasheet

Features

- 1/16 DIN 48 × 48 mm plug-in from front, IP65 panel seal
- Function CC PID; also NF on/off, TC PID+timer, TN on/off+timer
- Logic 9 Vdc 12 mA and relay 2 A 264 Vac resistive
- Universal sensor: thermocouple, Pt100, mV, mA (adapter for 0-10 V)
- Calibration accuracy +/-1 C or +/-0.25 percent of reading, whichever greater
- Supply VH 85-264 Vac or VL 20-29 Vac/dc, 5 W max

2116CCVHENG Characteristics / Specifications

PARAMETER	VALUE
Model	2116
Manufacturer	Eurotherm
Instrument Type	PID Temperature Controller
Series	2132 / 2116
Alias	2116; 2116/CC/VH/ENG; Eurotherm 2116
Panel Size	1/16 DIN, 48 × 48 mm
Bezel Depth	103 mm (4.01 in)
Panel Cutout	45 × 45 mm
Function Code CC	PID controller
Supply Code VH	85 to 264 Vac
Manual Language ENG	English
Supply Voltage High	100 to 240 Vac -15 percent / +10 percent, 48 to 62 Hz, 5 W maximum (handbook); datasheet also 85-264 Vac
Supply Voltage Low Option	20 to 29 Vac/dc, 5 W maximum
Logic Output	9 Vdc, 12 mA, non-isolated from sensor input
Relay Output	isolated, maximum 264 Vac 2 A resistive; minimum 12 Vdc 100 mA
Logic Uses	heating, cooling, alarm; or alarm ack, keylock, timer start/stop as input
Relay Fuse	independent 2 A fuses recommended
Calibration Accuracy	+/-1 C or +/-0.25 percent of reading, whichever is greater
Cold Junction Compensation	greater than 15 to 1 rejection of ambient temperature change
Input Filtering	off to 999.9 seconds
Operating Ambient	0 to 55 C, 5 to 95 percent RH noncondensing
Storage Temperature	-30 C to 75 C
Panel Sealing	IP65 when plugged into sleeve with latching ears
Safety	EN61010
Thermocouple Type J	-210 to 1200 C (handbook range table)

PARAMETER	VALUE
Thermocouple Type K	-200 to 1372 C
Thermocouple Type T	-200 to 400 C
Pt100 Range	-200 to 850 C
Process mV	-9.99 to +80 mV scalable
Process Current	0 to 20 mA or 4 to 20 mA with 2.49 ohm sense resistor
Process Voltage Adapter	0 to 10 Vdc (V1 adapter)
Timer Range	0 to 9999 minutes (timer functions)
Setpoint Rate Limit	0 to 999.9 LSD per minute
Display	4 digit; OP1/OP2 indicators
Wire Size	0.5 to 1.5 mm ² (16 to 22 AWG)
Terminal Torque	0.4 Nm (3.5 lb in)
Current Sense Resistor	2.49 ohm 0.1 percent (A1 adapter) Notes Specs from Eurotherm 2132 and 2116 installation handbook (HA026270 / HA029921) and 2116 datasheet. 2116/CC/VH/ENG is PID, high-voltage ac, English. Confirm logic versus relay assignment and sensor type on the side labels.
Universal sensor	thermocouple, Pt100, mV, mA (adapter for 0-10 V)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	30 C to 75 C
Panel Sealing	IP65 when plugged into sleeve with latching ears
Safety	EN61010
Thermocouple Type J	-210 to 1200 C (handbook range table)
Thermocouple Type K	-200 to 1372 C
Thermocouple Type T	-200 to 400 C
Pt100 Range	-200 to 850 C
Process mV	-9.99 to +80 mV scalable
Process Current	0 to 20 mA or 4 to 20 mA with 2.49 ohm sense resistor
Process Voltage Adapter	0 to 10 Vdc (V1 adapter)
Timer Range	0 to 9999 minutes (timer functions)
Setpoint Rate Limit	0 to 999.9 LSD per minute
Display	4 digit; OP1/OP2 indicators
Wire Size	0.5 to 1.5 mm ² (16 to 22 AWG)
Terminal Torque	0.4 Nm (3.5 lb in)
Current Sense Resistor	2.49 ohm 0.1 percent (A1 adapter) Notes Specs from Eurotherm 2132 and 2116 installation handbook (HA026270 / HA029921) and 2116 datasheet. 2116/CC/VH/ENG is PID, high-voltage ac, English. Confirm logic versus relay assignment and sensor type on the side labels.

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	2116
Manufacturer	Eurotherm
Instrument Type	PID Temperature Controller
Series	2132 / 2116
Alias	2116; 2116/CC/VH/ENG; Eurotherm 2116
Panel Size	1/16 DIN, 48 x 48 mm
Bezel Depth	103 mm (4.01 in)
Panel Cutout	45 x 45 mm
Function Code CC	PID controller
Supply Code VH	85 to 264 Vac
Manual Language ENG	English
Supply Voltage High	100 to 240 Vac -15 percent / +10 percent, 48 to 62 Hz, 5 W maximum (handbook); datasheet also 85-264 Vac
Supply Voltage Low Option	20 to 29 Vac/dc, 5 W maximum
Logic Output	9 Vdc, 12 mA, non-isolated from sensor input
Relay Output	isolated, maximum 264 Vac 2 A resistive; minimum 12 Vdc 100 mA
Logic Uses	heating, cooling, alarm; or alarm ack, keylock, timer start/stop as input
Relay Fuse	independent 2 A fuses recommended
Calibration Accuracy	+/-1 C or +/-0.25 percent of reading, whichever is greater
Cold Junction Compensation	greater than 15 to 1 rejection of ambient temperature change
Input Filtering	off to 999.9 seconds
Operating Ambient	0 to 55 C, 5 to 95 percent RH noncondensing
Storage Temperature	-30 C to 75 C
Panel Sealing	IP65 when plugged into sleeve with latching ears
Safety	EN61010
Thermocouple Type J	-210 to 1200 C (handbook range table)

PARAMETER	VALUE
Thermocouple Type K	-200 to 1372 C
Thermocouple Type T	-200 to 400 C
Pt100 Range	-200 to 850 C
Process mV	-9.99 to +80 mV scalable
Process Current	0 to 20 mA or 4 to 20 mA with 2.49 ohm sense resistor
Process Voltage Adapter	0 to 10 Vdc (V1 adapter)
Timer Range	0 to 9999 minutes (timer functions)
Setpoint Rate Limit	0 to 999.9 LSD per minute
Display	4 digit; OP1/OP2 indicators
Wire Size	0.5 to 1.5 mm2 (16 to 22 AWG)
Terminal Torque	0.4 Nm (3.5 lb in)
Current Sense Resistor	2.49 ohm 0.1 percent (A1 adapter)

Notes

Specs from Eurotherm 2132 and 2116 installation handbook (HA026270 / HA029921) and 2116 datasheet. 2116/CC/VH/ENG is PID, high-voltage ac, English. Confirm logic versus relay assignment and sensor type on the side labels.

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.