

Auto-Adaptive PID Controller

N1200

UK CA CE c UL us RoHS REACH COMPLIANCE FRONT IP65 WARRANTY 3 YEARS WARRANTY EXPORTED TO MORE THAN 60 COUNTRIES



- **Designed for high performance control**
- **Automatically balances process disturbances**
- **Ensures responsiveness in dynamic processes**
- **Suitable for complex temperature profiles**

The **N1200** process controller was designed for high performance control in the most demanding applications.

Its advanced and consolidated Auto-Adaptive PID algorithm ensures fast and highly accurate response in very dynamic processes with complex profiles.

N1200 has the fastest sampling rate among competitors, which allows the PID control to actuate with great responsiveness ensuring the correct process dynamics. Both electronic robustness and anti-flame material enclosure comply with the main world-class approvals for industry devices.

Advanced configuration of all parameters and fine tuning can be easily and quickly achieved via the USB port by using the free-of-charge **NOVUS** configuration software.

Besides the standard parameters settings, **N1200** also performs customized ramp and soak temperature profiles by programming up to 20 user-configured recipes or up to 180 segments.

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We Measure, We Control, We Record

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RAMPS AND SOAKS
20 programs with 9 segments each

DETACHABLE FRONT PANEL
Easy commissioning

HIGH SAMPLING RATE
Ideal for dynamic processes

PROTECTION AND SAFETY
Anti-flame material UL94 V-2

USB CONFIGURABLE
Device configurable via USB with **NOVUS** free software

Input Type	TC J, K, T, N, R, S, B, E, Pt100 0-20 mA, 4-20 mA, 0-50 mV, 0-5 Vdc, 0-10 Vdc
Accuracy	Thermocouples J, K, T: 0.25 % of span ±1 °C Thermocouples N, R, S, B: 0.25 % of span ± 3 °C Pt100, 0-20 mA, 4-20 mA, 0-5 Vdc, 0-10 Vdc: 0.2 % of span
Input Resolution	32767 levels (15 bits)
Sampling Rate	55 samples per second
Analog Output	0-20 mA or 4-20 mA
Output Resolution	31000 levels
Control Type	PID, PI, PD, P On/Off
Control Action	Heat or Cool
Control Output Type	SSR Pulse 4-20 mA control Relay
Alarm Types	Minimum, Maximum, Differential, Differential Low, Differential High, Open Sensor, Ramp and Soak Event
Open Sensor Detection	Loop Break / Heater break detection

Optional	Relay, Two Digital Inputs or Outputs, RS-485, Heater break detection
Communication	RS485 Modbus optional
Ramp and Soak Programs	20 programs with 9 segments each
Safety	Password protected configuration
Configuration Interface	USB type Mini B (powered)
Power Supply	100-240 Vac/dc 12-24 Vdc
Maximum Consumption	9 VA
Front Pannel	IP65 Polycarbonate (PC) UL94 V-2
Enclosure	IP20 48 x 48 x 110 mm (DIN 1/16) ABS+PC UL94 V-0
Operating Conditions	5 to 50 °C (41 to 122 °F) and 0 to 80 % RH
Approvals	CE, RoHs, Reach, UL and cUL

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