

FU86 PID Temperature Controller

Semi-Automatic Electronic Temperature Controller with Advanced PID Control

MAX TEMP 300°C	PANEL SIZE 48 × 96 mm	CONTROL MODE PID Control	DISPLAY 4 Digit / 7 Seg
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PRODUCT DESCRIPTION

The **Taie FU86 PID Temperature Controller** is a high-precision semi-automatic electronic temperature controller engineered to deliver dependable temperature regulation across a wide array of demanding industrial applications. Encased in high-quality stainless steel construction, the unit features a robust integrated air cooling system that guarantees continuous performance and thermal stability.

Designed with flexibility in mind, the FU86 supports accurate temperature control up to a maximum threshold of **300°C**. It offers full customizability with adjustable parameters including precise setpoint temperature, timing, and multi-mode alarm thresholds. The intuitive 4-digit 7-segment display interface allows operators to easily monitor parameters, configure process values, and execute real-time control.

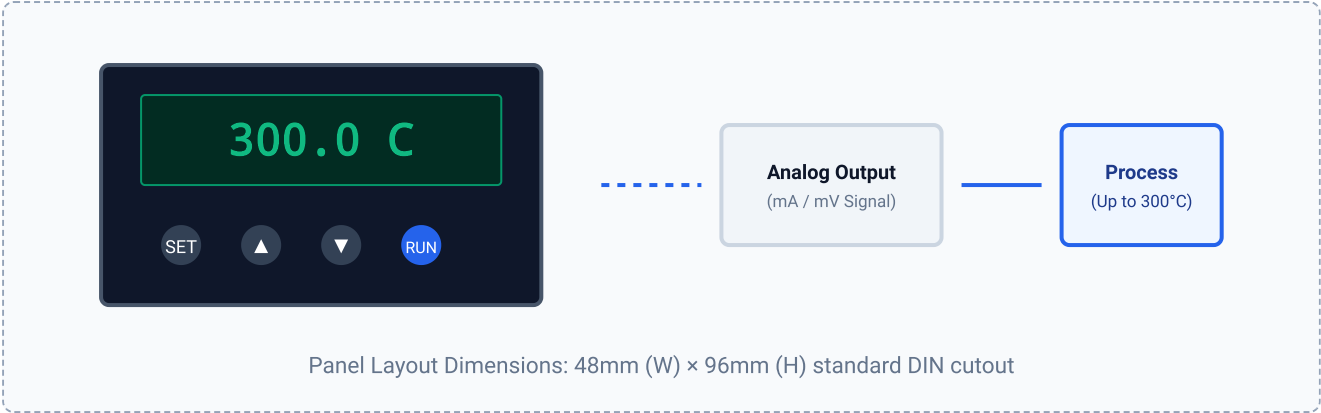
APPLICATIONS & PROCESS SUITABILITY

Chemical & Pharmaceutical Precise thermal control for reaction vessels, heating mantles, and fluid processing.	Food & Beverage Production Pasteurization, thermal treatment, batch cooking, and processing lines.
Laboratory & R&D Analytical testing, environmental chambers, and long-duration temperature stability experiments.	Industrial Process Control General industrial heating setups, ovens, packaging, and plastic extrusion equipment.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION DETAILS
Brand	Taie
Model No.	FU86
Physical Form Factor / Size	48 x 96 mm (Panel Mount)
Control Type	PID (Proportional-Integral-Derivative) Control
Input Signals	Thermocouple, RTD, Current (mA), and Voltage (mV)
Control Output Type	Analog Signal Output (mA / mV)
Display Type	High-Visibility 4-Digit / 7-Segment LED Display
Operating Voltage	270 VAC

FUNCTIONAL ARCHITECTURE & DIMENSIONS



KEY PERFORMANCE FEATURES

- **Multi-Input Compatibility:** Accepts Thermocouple, RTD, Current (mA), and Voltage (mV) inputs for maximum system integration options.
- **Rugged Stainless Steel Housing:** Designed to withstand challenging factory environments and chemical/pharmaceutical atmospheres.
- **Air Cooling Mechanism:** Features an optimized passive and air-cooling system to ensure continuous thermal dissipation and long-term operating life.
- **Flexible Parameter Control:** Full user modification for PID autotuning, manual override, high/low temperature alarms, and operation timing.

FREQUENTLY ASKED QUESTIONS (FAQ)

Q: What is the maximum temperature the Taie FU86 PID Temperature Controller can handle?

A: The Taie FU86 PID Temperature Controller is capable of providing accurate and stable temperature control up to a maximum operating limit of **300°C**.

Q: What type of cooling system is used in the Taie FU86 PID Temperature Controller?

A: The controller features a robust integrated air cooling system that efficiently manages internal thermal dissipation, ensuring continuous and reliable performance under high industrial workloads.

Q: What types of applications is the Taie FU86 PID Temperature Controller suitable for?

A: The Taie FU86 is ideal for both industrial and laboratory applications. It is tailored for process control in chemical and pharmaceutical processing, food and beverage production, thermal testing, and general manufacturing equipment.

Support & Ordering Information

For complete wiring schematics, custom input calibration, or volume ordering details, please consult your authorized Taie distributor or technical customer support.