Danaher — Timers and Controllers

P8101Z22210020



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The **P8101Z22210020** is a panel-mount process controller produced by Danaher for the Timers and Controllers series. Built around a PID algorithm, the unit accepts thermocouple feedback to maintain setpoint temperatures in ovens, baths, or heat tunnels used on automated lines. A dual four-digit, seven-segment LED display presents measured and set values; the upper readout glows red, while the lower readout glows green for immediate differentiation by operators. The controller occupies a 48 mm × 96 mm front aperture and extends 100 mm behind the panel. Its ABS housing keeps the weight low for compact enclosures.

The molded bezel has an **IP66** front rating, blocking dust and high-pressure water to keep the electronics isolated. Analog accuracy is supported by a **14-bit** input converter, and new samples arrive at a rate of **4 Hz**, allowing the PID loop to respond quickly to thermal drift. The measurement channel is calibrated for the **thermocouple sensor family**, allowing one instrument to handle multiple junction types through parameter selection. Actuation is provided by **two SSR drivers and one relay**, so the solid-state outputs can activate heaters while the mechanical relay switches auxiliary equipment.

Internal power consumption does not exceed **7.5 VA**, simplifying power allocation in densely packed cabinets. In service, the status contacts share the same form factor as the control relay. The electromechanical pole is an **SPDT** type rated for resistive loads up to **2 A**, enabling direct connection to alarms or interlock coils without external contactors. The assembled instrument weighs only **0.21 kg**, limiting strain on light-gauge control doors when several units are installed side by side. Its compact panel dimensions also allow multiple controllers to be arranged

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closely while retaining clear access to the display and front controls.

Specifications

Control Type:	PID	**Depth:**	100 mm	**Display Colors:**	Red Upper / Green Lower
Display Type:	Dual 4-Digit 7-Segment LED	**Front Panel Protection:**	IP66	**Height:**	96 mm
Housing Material:	ABS	**Input Resolution:**	14 bit	**Input Sample Rate:**	4 Hz
Input Type:	Thermocouple	**Maximum Power Consumption:**	7.5 VA	**Output Configuration:**	2 SSR Drivers + 1 Relay
Relay Contact Form:	SPDT	**Relay Resistive Current Rating:**	2 A	**Weight:**	0.21 kg
Width:	48 mm	**Last Verified:**	11/15/2026 7:18 PM		

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