Danaher — Timers and Controllers

P8101Z20000020



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The **P8101Z20000020** is a panel-mount temperature and process controller produced by Danaher within the Timers and Controllers series. It provides closed-loop control so that loop tuning and deviation correction are handled inside the unit rather than in the PLC. This self-contained control approach allows machine builders to place regulation directly on the front of an operator panel while limiting cabinet depth to 100 mm. The device is suitable for heating, cooling, and mixed-process zones found throughout industrial automation.

The front fascia has four tactile pushbuttons for navigating parameter groups and restoring factory defaults. A dual-display arrangement uses **dual 4-digit LED displays** to show the setpoint and actual value simultaneously, with red digits on the upper line and green digits below. Closed-loop action relies on a **PID algorithm** that processes signals through a **universal input channel**, allowing the same model to handle voltage, current, or resistance sensors without changes to the internal board. The housing follows the **1/8 DIN format** and snaps into a cutout measuring **45 × 92 mm**. Once secured, a neoprene gasket protects the opening against washdown and dust in control cabinets. Continuous operation is permitted at temperatures up to **55 °C**, allowing the controller to operate near heat-generating power components without forced ventilation.

Total burden on the auxiliary supply is limited to **7.5 VA**, keeping transformer requirements modest when multiple control loops share the same power rail. Internal conversion circuitry samples the process variable at **4 Hz**, providing a quarter-second response that is suitable for most thermal systems without inducing overshoot. An ABS enclosure resists oil splashes and cleaning fluids. The molded shell keeps the overall weight to **0.21 kg**, reducing

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the load placed on thin sheet-metal doors. When the 48 mm wide front frame is latched, a panel-mount clip maintains compression against the gasket. This arrangement creates a secure seal without requiring external fasteners.

Specifications

Button Count:	4	**Control Type:**	PID	**Depth:**	100 mm
Display:	Dual 4-Digit LED; Red Upper/Green Lower	**Height:**	96 mm	**Housing Material:**	ABS
Input Type:	Universal	**Maximum Operating Temperature:**	55 °C	**Maximum Power Consumption:**	7.5 VA
Mounting Type:	Panel	**Panel Cutout:**	45 × 92 mm	**Panel Format:**	1/8 DIN
Sampling Rate:	4 Hz	**Weight:**	0.21 kg	**Width:**	48 mm
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