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Known Difference Between IP330 and the IP330A

The IP330A has been designed as a drop-in replacement for the IP330. The known differences between the models include increased conversion rate, additional power requirements, module start-up time, and other general board specifications.

Increased Conversion Rate

The IP330A has a conversion time of 5μS, resulting in a maximum conversion rate of 200KHz. As a result of the increased speed of the module all interrupts will occur 5μS after the event. This is a decrease of approximately 3μS from the IP330.

Increased Power Requirements

The modernization of the IP330 has placed additional power demands on the +5V power source as detailed in the table below. The ±12V/±15V power requirements remained unchanged.

+5V	**Typical**	**Maximum**
IP330	30 mA	40 mA
IP330A	65 mA	200 mA

Calibration Voltage

The worst case temperature drift on the calibration voltage reference has increased from ±6ppm/°C to ±10ppm/°C. This may result in slightly larger errors in the calibration voltage over extreme temperatures.

Other Features

- **Start-Up Time**

The IP330A requires a maximum of 200mS of configuration time immediately after power-up. During this period, the IP module will not respond to any input.

- **Reset Debounce**

The IP reset line now includes 125nS of debounce to increase noise immunity.

- **Read/Write Operations**

All registers on the IP330A support both Byte and Word operations.

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