

## MCP9600 Rev. A Silicon Errata and Data Sheet Clarification

The MCP9600 parts you have received conform functionally to the Device Data Sheet (DS20005426C), except for the anomalies described below.

All of the issues listed here will be addressed in future revisions of the MCP9600 silicon.

Contact Microchip for the latest silicon fix.

### Data Sheet Clarifications

The following typographic corrections and clarifications are to be noted for the latest version of the device data sheet (DS20005426C):

None to report at this time.

### 1. Module: ( $T_{H\_ACY} - T_H$ Hot-Junction Temperature Accuracy)

The MCP9600 Hot-Junction ( $T_H$ ) Temperature Accuracy  $T_{H\_ACY}$  may not meet the specified accuracy. This issue affects the  $T_H$  temperature register only.

The Cold-Junction ( $T_C$ ) and the Junctions Delta ( $T_\Delta$ ) Temperature registers are not affected by this issue. These registers meet the accuracy performance as specified in the data sheet.

#### Work around

Convert the  $T_C$  and the  $T_\Delta$  temperature data from the units of Degree Celsius ( $^{\circ}C$ ) to millivolt (mV) using the NIST ITS-90 conversion look-up table or polynomial equation. Then sum the two voltages, and convert the summed value from millivolt to Degree Celsius using the NIST ITS-90 conversion table or polynomial equation.

#### Date Codes that pertain to this issue:

All production devices with Device ID/Revision register value are shown in [Table 1](#).

#### Fix

Devices with Date Code of 1723 or later are not affected. These devices have a Device ID/Revision value of 0x4012.

**TABLE 1: SILICON ISSUE SUMMARY (MCP9600)**

Module	Feature	Issue Summary	Affected Device ID/Revision	
			0x4011	0x4012
1	$T_{H\_ACY}$	This parameter may not meet data specification	X	—

**Note 1:** The Device ID/Revision Register is found in the user register pointer 0x20.

# MCP9600

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## APPENDIX A: DOCUMENT REVISION HISTORY

### Rev. B Document (9/2017)

- Added Fix regarding the devices with Date Code of 1723.
- Added [Note 1](#) to [Table 1](#).

### Rev. A Document (5/2017)

- Initial Release of this Document.

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