Low Profile, Low Noise Six Degrees of Freedom Inertial Sensor

Silicon Anomaly

ADIS16375

This anomaly list describes the known bugs, anomalies, and workarounds for the ADIS16375.

Analog Devices, Inc., is committed, through future silicon revisions, to continuously improve silicon functionality. Analog Devices tries to ensure that these future silicon revisions remain compatible with your present software/systems by implementing the recommended workarounds outlined here.

PERFORMANCE ISSUES

Table 1. PROD_ID Register Contains Incorrect Value [ER001]

Background	The ADIS16375 provides a register for product identification, PROD_ID. This register contains the binary equivalent of 16,375, or 0x3FF7. Prior to calibration, the automatic test software loads 0x0177 into the PROD_ID register, and then loads the register with 0x3FF7 after completing the calibration process. This requires operator input to verify passing units.
Issue	Due to operator error, units that have a date code of 1118 did not complete the last step of the test procedure correctly, leaving PROD_ID = 0x0177, instead of 0x3FF7. These units are fully functional, passed all electrical testing, and meet the performance expectations stated in the data sheet, with the exception of the PROD_ID register.
Workaround	For systems that use the PROD_ID as a switch variable in the system firmware, add 0x0177 as a value that denotes ADIS16375. This issue has no effect on normal operation of these devices.
Related Issues	None.

ANOMALY STATUS

Reference Number	Description	Status	Date Code
er001	PROD_ID register contains incorrect value	Fixed	1118

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NOTES

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