

P2700

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Type of Project: New IEEE Standard

PAR Request Date: 24-Oct-2013

PAR Approval Date: 11-Dec-2013

PAR Expiration Date: 31-Dec-2017

Status: PAR for a New IEEE Standard

1.1 Project Number: P2700

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Sensor Performance Parameter Definitions

3.1 Working Group: Standard for Sensor Performance Parameter Definitions working group (EDS/MEMS/mems_wg)

Contact Information for Working Group Chair

Name: Kenneth Foust

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Electron Devices Society/Microelectromechanical Systems (MEMS) Standards Development Committee (EDS/MEMS)

Contact Information for Sponsor Chair

Name: Herbert Bennett

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Entity

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 07/2014

4.3 Projected Completion Date for Submittal to RevCom: 02/2015

5.1 Approximate number of entities expected to be actively involved in the development of this project: 6

5.2 Scope: This document provides a common framework for sensor performance specification terminology, units, conditions and limits. The specific sensors discussed in this document are Accelerometer, Magnetometer, Gyrometer/Gyroscope, Barometer/Pressure Sensors, Hygrometer/Humidity Sensors, Temperature Sensors, Ambient Light Sensors, and Proximity Sensors.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: The purpose of this document is to provide a standard methodology for defining sensor performance parameters in order to facilitate system integration and accelerate time to market. This standard fulfills the need for a common methodology for specifying sensor performance that will ease the non-scalable integration challenges.

5.5 Need for the Project: With the rapid adoption of sensor technologies in the consumer electronics industry and the variety of sensor types, vendors, and integration considerations, it is acknowledged that Original Equipment Manufacturers (OEMs), Independent Software Vendors (ISVs) and other platform providers are faced with a non-scalable integration challenge. Therefore, it is imperative that a common methodology for specifying sensor performance is adopted by the ever expanding industry. It is intended that adoption burden be minimized and distributed while preserving product differentiation and innovation.

5.6 Stakeholders for the Standard: sensor vendors, ISVs, platform providers and OEMs

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: Yes

If Yes please explain: The MEMS Industry group (MIG) has developed a specification that is intended to be used as a base document for standardization.

and answer the following

Sponsor Organization: MEMS Industry Group [The MEMS Industry Group (MIG) is a trade association which advances Microelectromechanical systems (MEMS) globally.]

Project/Standard Number: 1

Project/Standard Date:

Project/Standard Title: Standardized Sensor Performance Parameter Definitions

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): Based on initial discussion, copyright permission is not required; however, it will be explored.