

SAE AS9100 REVISION D DOCUMENT

# PRECISION SENSORS

# QUALITY ASSURANCE MANUAL

THIS DOCUMENT IS CONTROLLED ONLY IF COPY IS STAMPED  
“CONTROLLED” IN RED INK

**INDEX**

<b>Page 1</b>	<b>Title Page</b>
<b>Page 2</b>	<b>Index</b>
<b>Page 3</b>	<b>Context</b>
<b>Page 3</b>	<b>Interested Parties</b>
<b>Page 3</b>	<b>Scope</b>
<b>Page 4</b>	<b>Process Map of Key Processes</b>
<b>Page 5</b>	<b>Summary of Changes</b>
<b>Page 6</b>	<b>Addendum 1 – Quality Policy &amp; Objectives</b>
<b>Page 7</b>	<b>Addendum 2 - Organization Chart</b>

**CONTEXT**

Precision Sensors (PSI), a division of United Electric Controls, provides reliable, cost effective threshold detection and sensing solutions to protect people, equipment and processes.

Technology: PSI is a time to market leader of products meeting customer-specific requirements by utilizing in-house design and development, prototyping and design verification activities.

Markets: PSI designs and manufactures pressure, vacuum, liquid level, flow, altitude/airspeed switches and sensors for aerospace, military and semiconductor process markets.

Competition: OEM manufacturers are challenged to meet customer demands for increased quality, lower prices and reduced lead times.

Labor: Workforce is highly skilled and experienced, supported by Management and Human Resources. A majority of the employees have served over five years, more than half for over ten years and the average tenure for staff employees is 20+ years. Labor is non-union.

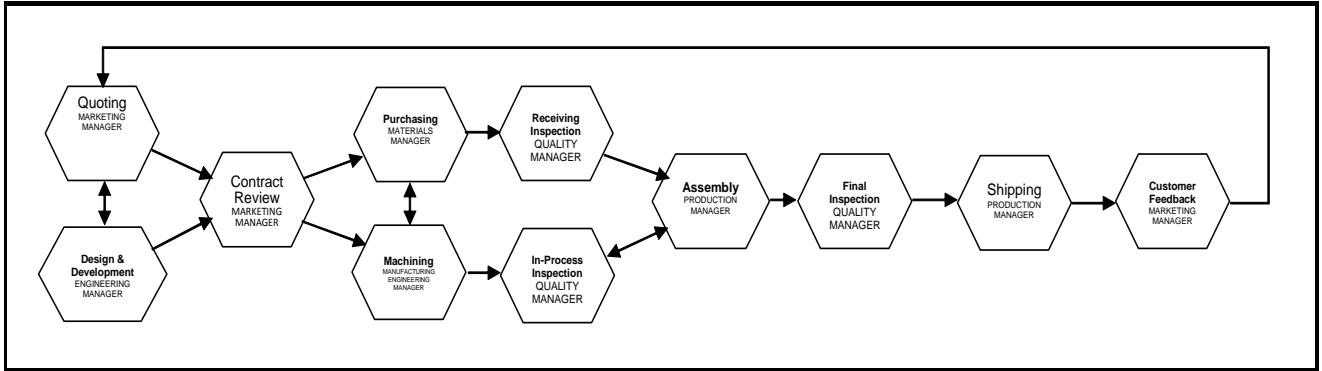
<b><u>INTERESTED PARTIES</u></b>	<b><u>NEEDS &amp; EXPECTATIONS</u></b>
Precision Sensors Business Owners	Keep employees interest first in making business decisions and treat employees fairly and with respect.
Employees	Provide a healthy and safe workplace that provides personal development and advancement opportunities.
Customers	Meet or exceed customer expectations for product, service and quality.
Suppliers	Provide accurate, detailed and timely information to enable defect free material in a timely manner.
Community and Government Agencies	To meet applicable laws and requirements about environment, employment, export, health, safety and fiscal responsibility.

**SCOPE**

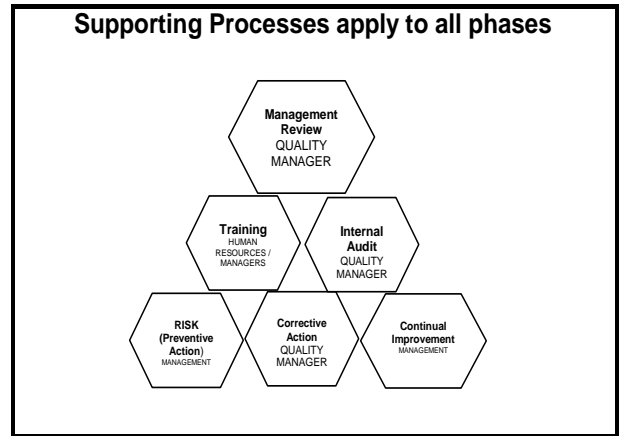
Design, manufacture and warranty repair of pressure, flow and liquid level switches and sensors for aerospace, defense and process control industries.

*NOTE: Precision Sensors takes no exclusions.*

**Process Map of Key Processes**



**Supporting Processes apply to all phases**



**SUMMARY OF CHANGES**

<b>Revision / DCN #</b>	<b>Change(s)</b>	<b>Effective Date</b>	<b>Approved by</b>
QAM 001 / 03-022	<b>Original</b>	October 20, 2003	Warren Root
QAM 002 / 03-028	Added to 4.1 <i>"Where an organization chooses to outsource..."</i> ; Added to 4.3 ref. to document ES12; qualified servicing exclusion in 4.2.2 to read 7.5.1.5 (from 7.5); Added to 7.3.1 <i>"Precision Sensors defines the different design and development tasks to be carried out..."</i> ; Identified in 7.4.3 how controls over outsourcing will be applied; and added to 8.2.4 <i>"When key characteristics have been identified, they are monitored and controlled."</i> as per documentation audit. Removed reference to SAE AS9100 Rev. level in 4.1	Nov. 17, 2003	Warren Root
QAM 003 / 03-033	Revised 8.2.1 – See Record Copy	Dec. 10, 2003	Warren Root
QAM 004 / 08-014	Removed flow chart for sales process and replaced it with flow chart for Interaction of Processes	10/29/08	Warren Root
QAM 005 / 10-012	Revised manual in accordance with changes to ISO 9001:2008 with editorial and spelling corrections throughout. Moved Quality Policy and Objectives to Addendum 2 of QAM	10/27/10	Warren Root
QAM 006 / 11-014A	Revised manual I.A.W. AS9100C – See record copy	8/5/2011	Warren Root
QAM 007 / 13-011	Added Sections 9.7, 9.8 & 9.9 to Addendum 1	5/1/13	Warren Root
QAM 008 / 16-020	Paragraph 4.2.2 Quality Manual – Removed Exclusion of 7.5.1.4	12/10/16	Warren Root
QAM 009 / 17-017	QAM re-written IAW AS9100 Rev. D	5/18/17	Warren Root
QAM 010 / 17-017	Revised Quality Policy & Objectives (Addendum 1) Added "No Exceptions Taken" to Scope	9/11/17	Warren Root
QAM 011 / 20-034	Added "Needs & Expectations to Interested Parties	11/10/20	Warren Root

**APPROVAL**

TITLE	DATE	SIGNATURE
Warren Root – QA Manager	Nov. 10, 2020	
Tim Straub - President	Nov. 10, 2020	

## ADDENDUM 1

## Precision Sensors Quality Policy &amp; Objectives

Quality Policy

Precision Sensors promises to deliver valued solutions, quality products and time to market superiority through continual improvement and ***“A United Commitment to Quality”***

Objectives

- 1) Reduce customer returns, deemed Precision Sensors responsibility, to less than .60%.
- 2) On Time Delivery (OTD) to Aerospace, Space and Defense customers will be greater than 90%.

On Time Delivery to Semi-Conductor customers will be greater than 80%.

---

Tim Straub, President

---

Warren Root, Quality Assurance Manager

---

Paul Zaczkowski, Production Manager

ADDENDUM 2

Organizational Chart

(See Attached)