

Global Supplier Quality Manual





Engineering Innovative Solutions"

Rochester Sensors is the leading designer and manufacturer of liquid level senders and sensors, liquid level gauges, and aircraft engine instruments. Our instruments can be found all over the world in many applications including automotive, aircraft, locomotives, off road construction equipment, recreational vehicles, marine and propane tanks. We have been manufacturing gauges since 1913 and during those years we have continuously improved upon design and developed modern technologies.

As an industry leader, Rochester Sensors constantly strives to create and manage an exceptionally reliable, competitive supply chain. Fundamentally, we envision this as an integrated chain wherein all members work together to eliminate unnecessary activities and align their business strategies to delight the final customer.

To compete in today's demanding marketplace, Rochester Sensors and its suppliers must be the recognized leaders in our chosen markets, providing responsive, quality solutions to improve customer's competitiveness. To measure supplier progress towards this quest, the Rochester Sensors Supplier Quality Requirements and Performance Scorecard was established to communicate measured performance.







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Supplier Quality Requirements & Supplier Scorecard

Purpose and Scope

The requirements in this manual link the quality standards of Rochester Sensors (RS) with our suppliers' quality standards. As applicable, suppliers must submit RS forms as outlined in Appendix A of this Manual. All other forms (Appendix B) can be in any format and may not require an exact format. The information required may be submitted in the Supplier's format to an RS contact for acceptance.

The purpose of the RS Supplier Scorecard is to communicate key supplier performance metrics that align with Rochester's business objectives. The program rewards suppliers based on data, serves as a foundation for continuous improvement, and assists with future sourcing decisions.

These requirements were compiled in conjunction with the ISO 9001 International Standard, Rochester Global Procedures, Regulatory and Statuary Requirements, and Customer Specific Requirements.

It is the policy of Rochester to help our customers compete by delivering products and services of the highest quality and reliability. A critical element to accomplish this is receiving parts, products and services from Suppliers on time. Therefore, the Supplier is empowered to initiate action to ensure both quality and continuous improvement for every part, product and service using the required procedures in this manual.

Jackie Quinonez Global Director of Supply Chain

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Valerie Brown Global Director of Quality





Purchase Order Terms & Conditions

All materials purchased by Rochester Sensors shall comply with all relevant specification drawings unless a signed deviation is granted. These same materials must satisfy current statutory, regulatory, governmental and safety requirements on restricted, toxic, and hazardous materials applicable on the date of shipment. The supplier of materials to Rochester Sensors is also required to notify Rochester Sensors in writing if any items purchased are in compliance with REACH, RoHS, Prop 65, EPA TSCA, and Conflict Minerals, reference Appendix A.

Please refer to the Rochester Supplier Quality Manual at the following link:

https://rochestersensors.com/wp-content/uploads/Global-Supply-Quality-Manual.pdf

Order Acknowledgement

It is the responsibility of every supplier to acknowledge receipt of our purchase orders. Purchase orders should be acknowledged even when there are no changes to the order. When no acknowledgement is received, automatic acceptance of Rochester Sensors' pricing and dock dates are adhered to.

General Packaging & Label Requirements for All shipments

The purpose of these instructions is to inform suppliers on how to pack and ship materials to Rochester Sensors. Product specific packing and shipping requirements may also apply. Please refer to the purchase order or drawing for more details regarding a specific part number requirement for special packaging.

Materials must be preserved and packaged to the degree of protection necessary to prevent deterioration or damage during shipment under normal environmental conditions and on commercial modes of transportation.

All materials must be packaged according to the item on the purchase order (notes) or the use of a default method, so that the materials may be handled in a uniformed method. Shipping containers must also be uniform in size, of minimum tar weight, and cube consistent with the protection required. Materials must be packed to secure lowest transportation costs and comply with carrier regulations.

Unless otherwise specified in the purchase order, all materials must be packed and shipped in accordance with best commercial practices.







Unit Package Quantity

Unless otherwise specified on the purchase order or drawing the default unit package quantity must be determined based upon the following:

- 1) Total weight per box not to exceed 26lbs.
- 2) Pack quantity based on using a multiple of 50/100/250/1000.
- 3) Use of bags is acceptable but must be sealed.
- 4) Packaged in quantities that are standard.
- 5) No added charges for packaging.
- 6) Bulk packaging is specifically excluded unless specified in the purchase order.

All shipments will have labels attached to the outer box and to and inner box(s) or/bag(s) contain within. The labels shall have the following information on each:

- 1) Rochester Sensors part number and revision level
- 2) Quantity
- 3) Rochester Sensors purchase order number
- 4) Supplier name
- 5) Lot number/date of manufacturing
- 6) Supplier ID number

Any shipment that contains a product(s) that is or has a:

- 1) Limited shelf-life
- 2) Temperature sensitive
- 3) Requires special storage
- 4) Product is hazardous

Must have a label placed on the top side of the package indicating special handling is required.

- 1) FAI/PPAP Submittal: All shipments for FAI/PPAP inspection must have a label on the shipment to identify it as a submittal.
- Bar Code: All labels shall be barcoded. Code 39 or 128 is acceptable. Please refer to the document Bar Code section VI in the Supplier Quality Requirements Manual – Page 29
- 3) Label Size: 4.0 inches (Min.) (102mm) high by 6.0 inches (Min.) (152mm) or 6.5 inches (165mm) wide
- 4) Label Color: White label with black printing.
- 5) Label Quantity and Placement: Minimum 1 labels per box on the ends.







Material shipped on pallets:

- 1) Gross weight of material including pallet is not to exceed 2500 pounds.
- 2) All unitized loads are to be plastic banded, stretch-wrapped, or shrink-wrapped.
- 3) Overall height of palletized unit including pallet is not to exceed 53".
- 4) All pallets must have a minimum under-clearance of 3 5/8" for fork entry. Pallets must comply with international standards. Pallets must be clean, odor and stain free. Shipments received on substandard pallets will be refused.
- 5) Pallets may be heat treated meeting ISPN 15 standards and in some cases heat treatment maybe required.
- 6) Labels required: Shall be placed in such a manner to be seen from the top or sides of the material.







Section I – Document Control

A. Certificates (CERTS)

The parts and services of our suppliers have a direct impact on the quality of our final products. Therefore, Rochester Sensors expects its suppliers to maintain a quality management system based on the current version of ISO 9001 or IATF 16949.

Evidence of a fully functioning quality management system is produced by a 3rd party register. Copies of valid certification must be updated. It is the supplier's responsibility to ensure that Rochester Sensors always has valid certificates.

All first article submissions (FAI) will require the supplier to submit all pertinent documentation (example: Certificates of Conformance, PQP (Parts Qualification Plan), Certificates of Test, PSW (Part Submission Warrant), process capability, quality conformance qualification and reliability demonstration, Process Flow diagrams, Control Plans, FMEA, etc.,) which will provide assurance that the supplier has a viable process to meet RS part specifications. Thereafter, certifications and process documentation must be maintained by the supplier and made available to RS upon request. CERTS and COC may be required on the specification or purchase order.

B. Record Retention

All Program records, i.e., control charts, audit logs, test results, certificates etc., must be maintained by Supplier for a minimum of ten (10) years or life of the product, unless otherwise specified on the purchase order.

C. Drawing and Specification Control

It is the Supplier's responsibility to ensure that the latest revision engineering specification, including performance and reliability, as defined on drawings, data sheet, or other documents, is used as specified on the purchase order. It is the responsibility of the Rochester Purchasing Department to inform the supplier of drawing, specification, or documentation updates.

D. Document Availability

All documents produced to manufacture and service Rochester Sensors parts will be the Supplier's responsibility to maintain and be available upon request.







E. Precedence

If the supplier is unable to meet a requirement outline in this Global Supplier Quality Manual, then contact Supplier Quality or Supply Chain to request a deviation. The approved deviation must be documented on RS purchase order and/or engineering drawings/specifications, raw material number request, or other applicable documents.







Section II – Supplier Part / Product Control

A. Part Submission Warrant (PSW)

The Part Submission Warrant (PSW) (Appendix A) is required for all new part/product submitted to RS for qualification or change approval. An exception to PPAP would be for off-the-shelf parts and approved deviations. Specific guidance can be found in the Part Qualification Plan (PQP) provided with the FAI Purchase Order. The PSW (and any additional PPAP documents requested) must be filled out in its entirety. Incomplete documents will not be accepted, nor will the parts covered by the document be considered.

A Supplier-signed PSW indicates that the Supplier has successfully reviewed all part/product specifications, including performance and reliability, and warrants the part/product submitted. Supporting documents showing compliance to the drawing, specification, or any additional requirements on the Purchase Order must also be submitted with the PSW. For multiple-cavity molds or tools, data and parts from each cavity or tool is required. Refer to the Part Qualification Plan for specific data requirements.

If there is a need for an exception at PSW submission, the Supplier must submit either a Supplier Process Change Notice (PCN – Appendix A), a request for deviation, or a Supplier Corrective Action Report (SCAR – Appendix B).

B. Supplier Process/Product Change Notice (PCN)

RS believes engineering part/product control is essential to continued quality and reliability. Accordingly, RS requires that once a part/product is qualified for production and released, the Supplier cannot change the part/product, process, and/or location of manufacture without written approval by the appropriate Purchasing AND/OR Supplier Quality contact from RS.

Suppliers can, however, submit a PCN at any time. The intent of this Form is to provide a method for the Supplier to recommend improvements, document process changes, equipment changes or correct non-conformance. The PCN Form is required when changing part design, composition, processing, manufacturing location, reliability, specification description, introducing different equipment or at any time the part/product cannot meet the drawing, specification performance, reliability or any further requirements, and the Supplier requests change to same. It is the intent of RS to prevent noncompliance issues to avoid part/product deviation.







RS also expects all suppliers to actively pursue continuous improvement activities to improve quality, reliability and reduce cost on each part/product. If a PCN is submitted, it should be completed and sent to the appropriate Purchasing contact along with a Part Submission Warrant (PSW) if sample parts are supplied. RS will make a pre-determination as to the scope of the requested engineering change. If the request is accepted on a preliminary basis, the PCN will be processed, and an implementation plan requested. If the PCN is rejected, the PCN will be returned, along with the reason for rejection. RS may also request a Corrective Action Report as part of the rejection.

C. Supplier Corrective Action Report

It is essential that the supplier *immediately* initiates corrective action when any nonconformance of Critical parts, key issues with large quantity, line stoppage issues, stock out and repeat failures is identified at RS or any of its customers. When this occurs, the appropriate Purchasing and/or Supplier Quality contact will inform the Supplier of the nonconformance, Supplier must submit in writing the following items *within three (3) working days:*

- Description of how containment is to be initiated.
- Communication of initial root cause analysis and/or short-term activity plan.

After initial containment and/or short-term activity plan completion, the Supplier must submit a final SCAR (Supplier Corrective Action Report) using the 8D process or any systematic problem-solving methodology, which includes:

- Full problem description
- Containment action
- Root cause analysis
- Permanent corrective action
- Implementation timing
- Verification with data
- Preventative Actions

D. Supplier Production Control

It is the Supplier's responsibility to properly maintain all required material, parts, tools, and equipment to support production of RS tools or parts/products. RS requires 100% ontime delivery for all production orders, tools, and prototype part orders. Periodic Supplier Quality survey or Audit confirms that satisfactory elements of a Quality Management System are in place, clearly documented, and adhered to.

When required by RS' Customer Specific Requirements, Suppliers will need to develop and implement a Safe Launch Plan for all pre-production products and process launches. The







Safe Launch Plan may consist of an increased sampling plan and 100% inspection of production parts with quality and time-based exit criteria as part of Start of Production (SOP) launch. RS' Supplier Quality will provide the Safe Launch Plan requirements to meet customer expectations.

E. Supplier Quality System

It is the Supplier's responsibility to maintain a Quality System, certified to ISO 9001 through third-party audits, unless otherwise specified by RS. The Supplier Quality System must promote continuous improvement by monitoring PPM, DPM, and Supplier Dissatisfiers (SD) for all RS parts and products.

F. Supplier Assessment and Selection

The intent of supplier evaluation is to review and evaluate the performance of potential and existing suppliers in terms of the four value drivers: quality, cost, technology, and supply. Supplier evaluations support pre-production, series production and aftersales purchasing processes and provides and early indication of support needs for suppliers in the case of an award.

The On-Site Assessment (OSA) "checklist" is used in specific cases to evaluate new and current suppliers within the scope of a new contract award for product projects and series production. Results of an On-Site Assessment are communicated to the supplier at the end of the assessment with highlights and potential for improvement.

The supplier must provide a due date to share containment and corrective actions as a result of assessment.

G. Nonconforming Material

Rochester Sensors is driven continually improve the performance of its brands through a commitment to a zero-defect target. The following requirements are aimed at the rapid detection and correction of defects in order to achieve the objective.

Any nonconformance related to a safety issue requires the highest level of attention and prompt containment.

- Notify Rochester Sensors Supplier Quality immediately regarding all quality spills (no more than 24 hours) at <u>globalscq@rochestersensors.com</u>.
- Support tracking of affected population and drive containment actions
- Actively participate to ensure timely resolution of quality issues
- Submit recalls to Rochester Sensors immediately, as directed
- Promptly direct root cause investigation and corrective actions implementation





To prevent nonconforming parts from being shipped to Rochester Sensors, suppliers are expected to deploy necessary controls in their manufacturing process to identify and address known and potential non-conformances.

Inspection / Reject Process

Materials or products received from suppliers to be used at Rochester Sensors manufacturing plants are verified against the purchase order and Rochester Sensors drawing/ specification. In addition to part features, rejection reasons may include part cleanliness, paint readiness, packaging, part identification and incomplete paperwork. Rejected parts will be documented on a Quality Reject Notification, which will emailed to the contact identified by the supplier. A Return RMA number Authorization response is required withing 2 business days (48 hours) of the reject incident. Suspect parts can also be routed to Receiving Inspection by Plant QA. The parts will either be:

- Used as-is.
- Reworked, at the supplier's expense.
- Returned to supplier (if requested by the supplier) or hire 3rd party short company.
- Scrapped with an appropriate Return Goods Authorization

Rochester Sensors highly recommends that suppliers take internal action on QRNs as they will impact the supplier's score.

Non-conforming Material Fees

Rochester Sensors will notify the supplier in advance with the option to return, rework or sort material to avoid any non-conforming material fees. Rochester Sensors may charge for any plant, customer disruptions and/or sorting fees occurred due to rejected / defective material. All non-conforming material fees will be agreed upon in advance with the Supplier. Please refer to the NC which accompanies each reject incident for supporting details.

It is the supplier's responsibility to provide Rochester Sensors Supplier Quality with valid contact information at all times so Quality Reject Notifications may be properly distributed.







Section III - Part / Product Qualification

All parts/products that require special tooling and/or specific requirements, as well as standard purchased items when requested by RS, must be qualified prior to production release. The RS New Product Development Team will bring Suppliers into the parts development stages whenever possible. This will allow early Supplier involvement, reliability prediction, prototype testing, and analysis prior to part/product qualification.

A. Pre-production Run

A pre-production run will be required for qualification of all new parts/products and design revision changes. The quantities and other aspects of this run shall be specified on the purchase order. Only parts/products produced from normal production level process are to be submitted for qualification by RS. Parts/products cannot be sorted, reworked, or altered in any way and should represent normal manufacturing processes illustrated in the Process Flow Chart.

B. Part/Product Submission

Using the pre-production parts, the Supplier will verify conformance to all RS requirements and submit a Part Submission Warrant (PSW). If there is a need for an exception such as PSW submission, the Supplier must submit either a Process Change Notice (PCN) or a Supplier Corrective Action Report (SCAR). Exceptions may exist for off-the-shelf parts or special production runs granted from Supplier Quality.

C. Process Flow Chart

All PSWs, submitted to meet IATF 16949 requirements, must include a Process Flow Chart (PFC). This requirement is typically documented on the Part Qualification Plan (PQP). The process flow chart must illustrate the flow of material, identifying all steps necessary to manufacture the part/product. The Supplier should use different symbols to identify material and processes. The chart must:

- Number and name each major process step this allows reference to each process for the process FMEA and control plan.
- Identify critical processes which are those that could cause the part to be scrapped, are identified on the FMEA, affect reliability, or are identified as a diamond ◊ on the print.
- Identify inspection steps to be used.
- Include rework loops and the number of rework iterations allowed.
- Include a symbol key with definitions for the flow chart.







D. Design and Process FMEA / Risk Assessment

The Failure Mode and Effects Analysis (FMEA)/Risk Assessment is an organized approach for identifying potential failure modes. This procedure will also identify key parts/products and process characteristics.

There are several formats for an FMEA, but all should involve assignment of a Risk Priority Number (RPN) which is essential to identifying and prioritizing critical characteristics of the product and/or process. A sample of RS's form and ranking system is contained in Appendix B.

E. Significant and Special Characteristics

Significant Characteristics, as identified by RS, is shown on the drawing by a diamond \diamond . That signifies an important feature that needs to be monitored and controlled. Special Characteristics have higher importance and are further defined as being Critical Safety (CC) identified with the Symbol or Significant Function (FC) identified with the symbol. The following table provides guidance in their application.

#	Guide	CC	FC
1	When to apply a CC/ FC	Affects product and operator safety and/or compliance with regulatory requirements.	Affects product form, fit or function (other than safety and regulatory) or has other valid reasons to classify significant
2	ls a deviation approval possible in case out of spec.?	No	Yes, temporarily
3	Evidence for PPAP approval	Initial capability Ppk >1.67 or Poka-Yoke or 100% detection If the CC applies to material, a material Certificate or lab test is required	Init. capability Ppk >1.67 or Poka-Yoke or 100% detection (If FC applies to material, material certificate or lab test is required)
4	Evidence in serial production	Continuous capability CpK >1.67 if validation indicated by SPC (S tatistical P rocess C ontrol) or Poka-Yoke or 100% detection If the CC applies to material, a material certificate is required.	Continuous capability CpK >1.33 if validation indicated by SPC (S tatistical P rocess C ontrol) or Poka-Yoke or 100% detection (If FC applies to material, material certificate is required on request)

Appendix B contains a sample Process Control Plan (PCP). More comprehensive Forms and Instructions can be found through AIAG.





F. Reliability Compliance

When required by RS, Suppliers must provide and maintain demonstration, qualification or accelerated life test data indicating compliance with required failure rate or Mean-Time-Between-Failures (MTBF), confidence level and environment.







Section IV - Definitions

A. Special Characteristics (SC)

There are two (2) types of Special Characteristics.

Characteristics	Definition	Symbol
Critical Safety Characteristics	Is a product characteristic for which reasonably anticipated variation could significantly affect the product's safety or its compliance with government regulations such as: flammability, occupant protection, steering control, braking, etc.), emissions, noise, radio frequency interference, etc.	S
Significant Function CharacteristicsA product characteristic for which reasonably anticipat variation is likely to significantly affect customer satisfa with a product such as its fits, function, mounting or appearance, or the ability to process or build the prod		(F)

B. Process Capability

<u>1. Process Stability</u>

The stability of a process is key to consistent parts / products. Statistical techniques should be used to determine if the process is in control over time. Out-of-control conditions require immediate action.

2. Process Potential (Short term)

This is a short-term study to assess whether a process has the potential of being capable of meeting the specifications. It is also used for processes with non-normal or unstable data. Collecting at least 30 samples or subgroups containing at least 100 individual readings as they are running through the process can do this. Suitable intervals of time between samples should be chosen and the samples' characteristics should be measured and recorded. Mean and standard deviation (sigma) can then be calculated from the data.

USL = Upper Specification Limit **LSL** = Lower Specification Limit

- a. Ppk = minimum of (USL mean) / 3 sigma.
- b. Ppk > 1.67; 1.33 to 1.67 is acceptable with an improvement plan or enough inspection.
- c. Ppk < 1.33 requires immediate corrective action plan.

<u> 3. Process Performance (Long-term)</u>

The performance study defines the producibility of the process as the process factors change over time. Readings should be from a minimum of six work orders over at least 30 days. This will result in 180 readings, representing six individual potential studies, to calculate process performance capability.

- a. CpK > 1.33 is acceptable.
- b. CpK < 1.33 requires immediate corrective action plan.







To be clear, CpK is the six-sigma range of a process's inherent variation where Sigma is estimated by R bar (Range Average) / D2 for the Sample Size. Ppk is the six-sigma range of a process's total variation where Sigma is estimated by the sample's standard deviation. CpK is an on-going activity. Ppk is used as a "snapshot" of the process variation at any given point in time. Ppk is useful to determine if a process will be capable (CpK) if process conditions maintain stability. It is also useful for determining if a continuous improvement activity has influenced the process, when evaluating new or modified tooling, etc.

C. Gauge Reliability and Reproducibility (GR&R)

GR&R is a gauge variation study. It is important to understand how much of the allowable specification tolerance is being used up by gauge variation. GR&R is required for all gauges controlling key part/product characteristics (KPC) or key process control characteristics (KCC). RS GR&R acceptance standards are less than ten percent. Ten to thirty percent GR&R is conditional, based on the characteristic and process capability, and requires a corrective action plan. A GR&R should be completed on an annual basis or as needed if there is a change in the part/product or process. Use of the long form is strongly encouraged.

D. Quality and Continuous Improvement Indicators

- 1) PPM Parts per Million (PPM) is defined as defective parts/products found on the factory floor and customer returns expressed per million parts/product.
- 2) DPM Defects per Million (DPM) is defined as defective part/products found at RS Incoming Inspection expressed per million parts/product.
- 3) SD Supplier Dissatisfiers is defined as the actual number of administrative errors that occur, such as shipped to the wrong address or incorrect quantity shipped.

E. Reliability Compliance

- 1) Mean-Time-Between-Failure (MTBF) is a measure of reliability, usually in operating hours or cycles. MTBF is the reciprocal of the failure rate. It is the total number of operating hours divided by the number of failures.
- 2) Failure Rate is the probability of failure per unit of time of the items still operating. Failure rate is expressed in percent failures per 1,000 hours (or miles, cycles, etc.) or in failures per 109 Hours (FITS). For exponential distribution of failures (constant failure rate), the failure rate is the reciprocal of the MTBF.
- 3) Confidence Level is the probability that a given statement is correct or the probability the reliability is equal to or greater than the stated value. Typically, unless otherwise specified by RS, a 90% confidence value base should be used.







F. First Article Inspection (FAI)

A <u>**First Article Inspection (FAI)</u>** is a formal method of providing a measurement report for a given manufacturing process. The method consists of measuring the properties and geometry of an initial sample item against given specifications. Typically, the supplier's inspection data is compared to the customer's data, so that correlation of inspection methods and results can be evaluated, and discrepancies resolved. Requests for FAIs may be due to a new supplier's submission, a new part, revised drawing specifications, revised tooling, new process, new material, new artwork, new sub-contractor, part inactivity, etc. Additional information may be requested, such as: Capability Studies, Gauge R&R, Process Change details, Process Flow Diagrams, FMEAs, Control Plans, Material composition, Material Mechanical properties, Specified test results. COC, Material Certification and PQP must be present with FAI. When information requested goes beyond just dimensional results, typically a PPAP will be requested.</u>

G. Production Part Approval Process (PPAP)

- 1) The Production Part Approval Process (PPAP) is used in the automotive supply chain, though not exclusively, for establishing confidence in component suppliers and their production processes. The purpose of the Production Part Approval Process (PPAP) is:
 - a) to ensure that supplier can meet the manufacturability and quality requirements for the purchased parts.
 - b) to provide evidence that the customer engineering design record and specification requirements are clearly understood and fulfilled by the supplier.
 - c) to demonstrate that the established manufacturing process has the potential to produce the part that consistently meets all requirements during the actual production run at the quoted production rate.
- 2) The Automotive Industry Action Group (AIAG) has developed a common PPAP standard as part of the Advanced Product Quality Planning (APQP). The Part Submission Warrant (PSW) is the cover page and summarizes the content and submission level of the report. An example of this document can be found in Appendix A. For more information refer to the AIAG PPAP Manual.





H. Appearance Approval Criteria

To maintain consistency of visual inspection we prepare golden samples of appearance criteria like GO/NOGO visual standards. These visual standards are communicated and distributed to all parties to have consistency. It is the responsibility of Quality Engineering to communicate this requirement during the APQP phase. Example: for printed dials, golden GO/NOGO samples created with collaborative efforts. All parties must use the GO/NOGO samples that are available and are maintained by their quality departments.







Section V – Supplier Performance Scorecard (SPS)

A. Purpose

The purpose of the RS Supplier Performance Scorecard is to communicate key supplier performance metrics that align with RS's business objectives. The program rewards suppliers based on data, serves as a foundation for continuous improvement, and assists with future sourcing decisions. Data is tracked monthly and reported quarterly. Our supplier scorecard consists of the following focus areas:

Delivery: On Time to Promise performance compared to the confirmed date received from the supplier (OTTP)

Quality:

- 1. As measured in Parts Per Million Defective (PPM)
- 2. Supplier Dissatisfier (SD)
- 3. Premium Freight Number of Occurrences
- 4. Customer Disruptions (Spill, hold, stock-out, stop ship)
- **Scope:** The RS Supplier Performance Scorecard applies to a select group of RS Suppliers we believe to be critical links in our supply chain. Generally, this will include the Critical Suppliers listed and identified each year as determined by spend (\$) and quality risk.

B. Benefits

The RS Supplier Performance Scorecard will benefit both RS and our Suppliers. To achieve the benefits, members in the supply chain must willingly share information by establishing open communication and fostering trust.

Supplier Benefits:

- Clearly stated performance expectations
- Improved communication
- The ability to Earn, Keep and Grow our business relationship.
- Objective data to measure your performance.
- Improved overall competitiveness in the market.

Rochester Benefits:

- Clearly communicated performance expectations to our supply base
- Closer relationships with our suppliers
- Better understanding of our supply base's overall performance
- Closer alignment between our customers' needs and our suppliers' capabilities.







C. Scorecard Point System

Suppliers will receive a Quarterly performance score based on these five focus areas:

1. OTTP	(0 to 30 points)
2. SPPM	(0 to 30 points)
3. Supplier Dissatisfiers	(0 to 20 points)
4. Premium Freight	(0 to 10 points)
5. Stock Out	(0 to 10 points)

The maximum possible score for the Quarter is 100 **points**.

D. Scoring Details

<u>1. Delivery Scoring (On Time to Promise)</u>

OTTP is the percentage of parts that are delivered on time to the Promise date on the Purchase Order. A shipment received on the Promise date, or no more than ten working days early, is "ON TIME."

Points	On Time to Promise Record (OTTP)	
30	OTTP is 100% to 96%	
25	OTTP is 95% to 89%	
20	OTTP is 89% to 85%	
15	OTTP is 84% to 80%	
10	OTTP is 79% to 70%	
0	OTTP is 69% or below	

2. Quality Scoring (Parts Per Million)

Parts Per Million measures product quality through the number of defective parts (non-conformance) per million units.

Points	Parts Per Million (PPM)
30	PPM is 0
25	PPM is 1 to 100
20	PPM is 101 to 300
10	PPM is 301 to 500
05	PPM is 501 to 999
0	PPM is greater than 1000

Definition: # of Units Rejected X 1,000,000 / Total # of Units Received = PPM







<u>3. Supplier Dissatisfier (SD)</u>

Number of Occurrences (example; mislabeling, incorrect parts shipped, wrong packaging, mixed parts etc.), non-conformance per each million units.

Points	Number of Occurrences
20	0 SD
15	1-2 SD
10	3-4 SD
5	5-6 SD
0	7+ SD

4. Premium Freight (Expedite Delivery)

Premium Freight measures product delivery through the number of occurrences of expedite deliveries (non-conformance).

Points	Premium Freight
10	0 expedite deliveries
5	1-2 expedite deliveries
0	3+ expedite deliveries

<u>5. Customer Disruption (Spill, hold, stock-out, stop ship)</u>

Customer Disruption measures product disruption through a notification from customer for spill, hold, stock-out, and stop shipments through the number of occurrences (non-conformance).

Points	Customer Disruptions
10	0 Part Shortages
5	1-2 Part Shortages
0	3+ Part Shortages





E. Supplier Performance Levels and Assessment

Each supplier is ranked based upon their on-going performance.

Level 1 - A supplier achieving an ongoing level of **90 points or above** is a preferred supplier that we will be rewarded with New Product Development involvement and additional business.

Level 2 - A supplier that has achieved an ongoing level of **75** to **89** points is performing at an acceptable level. However, if level 2 is achieved twice in a year, then the Strategic Sourcing Manager shall work with these suppliers to help them get to level 1 performance within a specified period.

Level 3 - A supplier that has achieved an ongoing level of **50 to 74 points** has a conditional level of performance. However, if the level 3 is achieved then the Strategic Sourcing Manager communicates with the Supplier by opening a NC with the help of Quality and demand corrective actions. *If level 3 is attained consecutively on two occasions, the supplier will be asked to provide an explanation on how they plan to enhance their metrics.*

Level 4 - A supplier that has achieved an ongoing level of **49** *points or below* is a restricted supplier. If level 4 is achieved, then Strategic Sourcing Manager will open a NC with the help of Quality and demand corrective actions. If level 4 is achieved twice in a row, then SSM's will avoid using these suppliers in any new designs and will seek to exit these suppliers in favor of alternate sources.







Section VI – Barcode Implementation and Usage

This section only applies when required by the Rochester Sensors Manufacturing Location (or our Customer) and agreed upon in advance by both parties. This requirement will also be specified in the Purchase Order and/or Terms of Conditions.

A. Introduction

These specifications provide guidelines for printing and applying a Shipping/Parts Identification Label. The label is designed to improve the productivity and controls for suppliers and Rochester Sensors, LLC, by allowing effective and efficient capture of data for production counts, forwarding, freight transfer control, receiving, and other inventory controls.

B. Barcode Specifications

1) Symbology Specifications

- **1.1) Barcode** All bar codes must be code 39 or 128 with a leading and trailing quiet zone of 0.25-inch minimum width. The barcode must conform to the barcode Symbology standard for Code 39, published by the Automotive Industry Action group (AIAG B-3 03.00 7/93).
- **1.2) Code Density and Dimensions** For each barcode symbol, the average width of the narrow elements must be within the range of 0.013 to 0.017 inches. The ratio of the nominal width of the wide elements to the nominal width of the narrow elements must be 3:1, with an allowable range of 2.8:1 to 3.2:1.

1.2.1) Box and Master labels, the bar heights must be a minimum of 0.5 inches.

- **1.3) Reflectivity and Contrast** The printed barcode symbol must meet the reflectivity and contrast requirements, specified in section 4.1 of AIAG-B-1 at all electromagnetic wave lengths from B633 to B900 nanometers.
- **1.4)** Check Digits Check Digits must not be used in the barcodes
- **1.5) Quality Assurance Requirements** It is the responsibility of the supplier to provide barcode labels that meet these specifications. Waivers may be granted on a case-by-case basis.







2) Size and Materials

2.1) Label Sizes

- **2.1.1) Single Labels** The standard Rochester Sensors, LLC label must be 4.0 inches high and 6.5 inches in length
- **2.1.2) Master Labels** The standard Rochester Sensors, LLC label must be 4.0 inches high and 6.5 inches in length
- **2.1.3) Label Stock** The label paper must be white in color with black printing, unless approved in advance.

2.2) Special Circumstances

If the specified label cannot be affixed to the package/container because of container size or design, special arrangements will be required, contact the Rochester buyer.

3) Data Area Characteristics/Size – Box and Master Label Only

3.1) Data Areas and Titles

There are nine areas for each label: Supplier Name, Part Number, Purchase Order Number, Line Item, Supplier Number, Rev. Level, Quantity, Part Description, and Date Mfg./Shipped. Each data area must be separated by thin lines and must contain its title in the upper left-hand corner. The barcode symbol must be directly below the readable characters in all data.

3.1.1 The supplier's name must be located at the top of single label and master label.

4) Placement of Labels

4.1) Single Use Label

To be used on all shipments. Each box, bag, container, pallet shall have a single use label. It should be applied in a place where visible and accessible.

4.1.1 One-part number per single use label. Where there is more than one box, bag, container, pallet, of the same part number, a "master label" will be used in conjunction with the single use label.







C. Sample Labels



Bar Code 128 Example

Bar Code 39 Example

D. Documents

The supplier will provide the necessary paperwork needed for efficient receipt of material. This will include:

- Packing list (2 copies)
- Material Certs (as required)
- Inspection data (as required)
- and any other required paperwork specified in the PQP.

E. Contacts

For any further questions contact the supply chain group at Rochester Sensors (<u>globalscq@rochestersensors.com</u>).







Section VII – Ethics, Integrity, and Human Rights

A. Introduction

We are committed to conducting business with the highest standards of ethics, integrity, and respect for human rights. Our suppliers play a crucial role in upholding these standards. This clause outlines the ethical, integrity, and human rights expectations we have for our suppliers.

B. Compliance with Laws and Regulations

Suppliers must comply with all applicable laws, regulations, and standards in the countries in which they operate. This includes, but is not limited to, laws and regulations related to labor, health and safety, the environment, and anti-corruption.

C. Ethical Business Practices

Suppliers are expected to conduct their business in an ethical manner and act with integrity. This includes:

- **<u>Prohibition of Corruption and Bribery</u>**: Suppliers must not engage in any form of corruption, extortion, or bribery. This includes offering or accepting any form of improper payment or benefit to gain a business advantage.
- **<u>Conflict of Interest</u>**: Suppliers must avoid conflicts of interest that may compromise their ability to act in the best interest of our company. Any potential conflicts of interest must be disclosed promptly.
- *Fair Competition:* Suppliers must engage in fair business practices, including fair competition and honest advertising.

D. Human Rights

Suppliers must respect and promote human rights as defined by the Universal Declaration of Human Rights and other applicable international standards. This includes:

- **No Forced Labor:** Suppliers must not use any form of forced, bonded, or indentured labor. Employees must be free to leave their employment after reasonable notice.
- **No Child Labor:** Suppliers must adhere to the minimum employment age limit defined by national law or international standards, whichever is higher. The minimum age for employment should not be less than 15 years (or 14 years where the law of the country permits).





Rochester Sensors, Engineering Innovative Solutions*

- **<u>Non-Discrimination</u>**: Suppliers must provide a workplace free from harassment and discrimination. All employees should be treated with respect and dignity, regardless of race, color, religion, gender, sexual orientation, age, national origin, disability, or any other status protected by law.
- <u>Freedom of Association</u>: Suppliers must respect the rights of employees to freely associate, join trade unions, seek representation, and bargain collectively. Employees should be able to communicate openly with management regarding working conditions without fear of reprisal or intimidation.
- **<u>Humane Treatment</u>**: Suppliers must ensure that no employee is subject to physical, sexual, psychological, or verbal harassment or abuse. Disciplinary policies and procedures should be clearly defined and communicated to employees.

E. Labor and Working Conditions

Suppliers must uphold the highest standards of labor practices, including:

- **Working Hours:** Suppliers must comply with applicable laws on working hours, including overtime, and ensure that employees are not overworked and are provided with adequate rest periods.
- **Wages and Benefits:** Suppliers must pay employees at least the minimum wage required by law and provide all legally mandated benefits. Employees should be compensated for overtime at a rate higher than the regular hourly rate.

F. Health, Safety, and Environment

Suppliers must provide a safe and healthy working environment for their employees and comply with all applicable environmental regulations. This includes:

- *Workplace Safety:* Suppliers must implement safety procedures and training to prevent accidents and injuries. They should provide necessary protective equipment and ensure that it is used properly.
- <u>Environmental Responsibility</u>: Suppliers must minimize their environmental impact and strive for sustainable practices in their operations. This includes managing waste responsibly, reducing emissions, and conserving natural resources.

G. Monitoring and Compliance

Suppliers must maintain accurate and transparent records to demonstrate compliance with this clause. We reserve the right to audit suppliers' operations and practices to ensure







adherence to these standards. Non-compliance may result in corrective actions, up to and including termination of the business relationship.

H. Reporting Concerns

Suppliers and their employees are encouraged to report any concerns or violations of this clause. Reports can be made confidentially and without fear of retaliation. Contact information for reporting concerns is provided below:

• Email: globalscq@rochestersensors.com

I. Conclusion

Our commitment to ethics, integrity, and human rights is fundamental to our business. We expect our suppliers to share this commitment and to operate with the highest standards of ethical conduct and respect for human rights. By working together, we can achieve mutual success and uphold the principles that define our company.







Section VIII - Conflict Minerals Clause

A. Introduction

As part of our commitment to ethical sourcing and compliance with applicable laws and regulations, we expect our suppliers to ensure that materials supplied to us do not contain conflict minerals that directly or indirectly finance, or benefit armed groups in conflict-affected regions.

B. Definition of Conflict Mineral

Conflict minerals include tin, tantalum, tungsten, and gold (commonly referred to as 3TG), which are sourced from regions experiencing conflict, particularly the Democratic Republic of the Congo (DRC) and adjoining countries. These minerals, when sourced from conflict-affected areas, can contribute to human rights abuses and violence. (questionnaire attached – must be filled out) and submitted to GlobalSCQ@Rochestersensors.com.

C. Supplier Responsibilities

Suppliers are required to:

- **Source Responsibly:** Ensure that all 3TG minerals in the products supplied to us are sourced responsibly and do not contribute to human rights abuses or armed conflict.
- **<u>Due Diligence</u>**: Conduct due diligence on the source and chain of custody of 3TG minerals in their supply chain. This includes obtaining information from their own suppliers about the origin of these minerals.
- **<u>Reporting</u>**: Provide us with complete and accurate information regarding the presence and source of 3TG minerals in the products supplied to us. This may include responding to surveys, providing certificates of origin, and cooperating with our requests for additional information.
- **Compliance:** Comply with applicable laws and regulations regarding conflict minerals, including the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act, and any other relevant regulations.









D. Conflict-Free Policy

We are committed to sourcing materials from suppliers who share our values regarding human rights and ethical business practices. We aim to use conflict-free minerals in our products and expect our suppliers to adopt and enforce similar policies within their supply chains.

E. Audit and Verification

We reserve the right to audit our suppliers' processes and records to verify compliance with this clause. Suppliers are expected to maintain transparent records and provide access to necessary documentation upon request.

F. Non-Compliance

Failure to comply with this clause may result in corrective actions, including the reassessment of the business relationship, suspension of orders, or termination of the supplier contract.

G. Conclusion

Our commitment to ethical sourcing and human rights is integral to our business operations. By adhering to this Conflict Minerals Clause, our suppliers help us uphold our standards and contribute to a more ethical and sustainable supply chain.





REVISION HISTORY

Date: 4/27/20	Revision: 2.4	Section: Var	By: RG/N	ЛК		
Description: Direct	or of Quality was	Quality Manager; D	irector of (Global Supp	ly Chain wa	as Global
Supply Chain Mana	ager. Records rete	ention updated 10 y	ears was 3	years. Upd	ated drawi	ng
specification contro	ol. Updated docu	ment availability. Ad	dded excep	otion to PSW	and PQP i	nformation.
Added clarification	to PCN. Updated	, added supplier co	rrective act	tion. Added	requireme	nt for PFC
for any IATF require	ements. Added S	ignificant and Speci	al Characte	eristics secti	on. At Relia	bility
Compliance, addec	l when required b	by RG. Added Specia	al Characte	ristics defin	itions. Upd	ated
appendix and form	ns. LLC was Inc. A	dded waiver may be	e granted fo	or barcode l	abels. Upd	ated Table
of Contents. Addec	revision history	starting with this re	vision 2.4.			
Date: 9/17/20	Revision: 3.0		Section	: Score card		Ву: МК
Description: Added	Appearance Crit	eria section. Updat	es to score	card to inclu	ide disrupt	ions,
number of occurre	nces of premium	freight and custom	ner issues. (Critical supp	liers were	top 10.
Point system upda	ted also to includ	e the same. Update	es to levels	and Assessi	ments	
Date: 04/12/2022	Revision: 4.0		Section	: Score card	and	By: MK
			Append	dix update		-
Description: Updat	ed Rochester Ser	nsor from Gauges. L	Jpdates to	scorecard b	y removing	the
Customer Survey. (Critical suppliers	were in the top 10.	The Point s	system upda	ted also. U	pdated the
Appendix with new	forms with new	Logo.				
Date: 07/12/2022		Revision: 5.0	Section	: Certificate	s and	By: JT, YM
			Append	dix update		-
Description: Updat	ed section Certifi	cates by adding PQ	P, add sect	ions Supplie	er Assessm	ent and
Selection, Nonconf	orming Material.	Updated the Apper	ndix with ne	ew forms, u	pdated for	mat.
Date: 5/12/2023	Revision: 6.0	Section: Supp	lier	By: JT, YM		
		Performance	Levels and			
		Assessment				
Description: Updat	ed section Suppli	er Performance Lev	els and As	sessment, n	ninor forma	at updates
Date: 5/5/2024	Revision: 7.0	Section: Supp	lier	By: VB, JQ		
		Performance	Levels and			
		Assessment				
Description: Updat	ed Nonconformi	ng Material section,	Director of	f Global Sup	ply Chain N	lame, Minor
format changes						
Date: 7/15/2024	Revision: 8.0	Section: All		By: VB, JQ		
Description: Revise	d Nonconformin	g Material section, I	Barcode se	ction, Suppl	ier Perform	nance
section, Minor forn	nat changes. Add	ed Conflict Minerals	s section ar	nd Ethics int	egrity & Hu	ıman Rights
section.						
Date: 10/25/2024	Revision: 9.0	Section: D. Su	pplier	By: VB, JQ		
		Production Co	ontrol			
Description: Added	RS Customer Sp	ecific Safe Launch P	lan Requir	ements for	its supplier	S.
Date: 11/19/2024	Revision: 10.0	Pg. 23		By: VB, JQ		
Description: Revise	d the Delivery Sc	oring (OTTP) Percer	ntages			





Appendix A

Title	<u>Pages</u>
Part Submission Warrant (PSW)	36
Process Change Notice (PCN)	37
Certificate of Compliance	38
Supplier Performance Scorecard (SPS)	39
Certificate of Conformance	40 - 42







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Part Submission Warrant

Part Name	Cust Part Number
Shown on Drawing No.	Org. Part Number
Engineering Change Level	Dated
Additional Engineering Changes	Dated
Safety and/or Government RegulationYesN	0 Purchase Order No Weight kg
Checking Aid No.	Checking and Engineering Change Level Dated
SUPPLIER MANUFACTURING INFORMATION	CUSTOMER SUBMITTAL INFORMATION
Rochester Sensors Supplier Name & Supplier/Vendor Code	Our tensor Masso/Division
Customer Name/Division	Buyer/Buyer Code
Street Address	Application
Dallas Texas 75229 USA	
City Region Postal Code Country	_
MATERIAL S REPORTING	
Has customer-required Substances of Concern information been reported	Yes No n/a
Submitted by IMDS or other customer format	
	· · · · · · · · · · · · · · · · · · ·
Are polymeric parts identified with appropriate ISO marking codes	Yes No n/a
REA SON FOR SUBMISSION (Check if at least one) Initial Submission	Change to Optional Construction or Material
_ Engineering Change(s)	Sub-Supplier or Material Source Change
Tooling; Transfer, Replacement, Refurbishment, or additional	Change in Part Processing
Correction of Discrepancy	Parts Produced at Additional Location
rooning macuve > man r year	Other - please spectry
REQUESTED SUBMISSION LEVEL (Check one)	
Level 1 - Warrant only (and for designated appearance items, an Appearance items, an Appearance items) and the support of the	irance Approval Report) submitted to customer.
Level 3 - Warrant with product samples and complete supporting data s	ubmitted to customer.
Level 4 - Warrant and other requirements as defined by customer.	
Level 5 - Warrant with product samples and complete supporting data	reviewed at supplier's manufacturing location.
SUBMISSION RESULTS	
The results for dimensional measurements material and functional ter	sts _ appearance criteriastatistical process package
These results meet all drawing and specification requirements; _ Yes 1 Model (Cavity) Reduction Process	NO (If "NO" - Explanation Required)
DECLARATION	
Thereby aftirm that the samples represented by this warrant are representative of our Approval Process Manual 4th Edition Requirements. I further affirm that these sample	parts, which were made by a process that meets all Production Part es were produced at thed production rate of / 1 hours.
I also certify that documented evidence of such compliance is on file and available for	r review. I have noted any deviations from this declaration below.
EXPLANATIONCOMMENTS:	
Is each Customer Tool properly tagged and numbered?	YesNo
Organization Authorized Signature	Date:
Print Name	Phone No. <u>972-241-2161</u> FAX No. <u>972-820-4153</u>
Tite	Email
FOR	CUSTOMER USE ONLY (IF APPLICABLE)
Part Warrant Disposition:ApprovedRejectedOther	
Customer Signature	Date
Print Name	Customer tracking Number (optional)
L	





Product / Process Change Notification

Complete this form and email to your customer organization who Manual in Table 3.1. Your customer will respond back with an ac	enever customer notificat cknowledgement and ma	tion is required by the PPAP y request additional change	
clarification or PPAP submission requirements.			
To: <u>s</u>	Customer:		
Organization Part Number:	-	Engineering Revision Level	Dated:
Customer Part Number:	-	Engineering Revision Level	Dated:
Purchase Order Number:	-	Safety and/or government regulation:	
Application:	-		
ORGANIZATION MANUFACTURING INFORMATION Name: Street Address	-		
City, State & Zip: <u>Customer Plants Affected:</u> Engineering Change(s) Tooling; Transfer, Replacement, Refurbishment, or additional Correction of Discrepancy Design Responsibility:Customer	- Organization	Change Type (check all that apply) Dimensional Materials Functional Appearance	
Organization Change That May Affect End Item : Product Change Engineering Drawing Change Expected PPAP Completion/Submission Date: DETAILED DESCRIPTION OF PRODUCT/PROCESS CHANGE:		New or Revised Subcomponent	
Planned Date of Implementation DECLARATION I hereby certify that representative samples will be manufactured using the where appropriate, for dimensional change, appearance change, physic performance and durability. I also certify that documented evidence of strength EXPLANATION/COMMENTS:	the revised product and/or p al property change, function uch compliance is on file and	rocess and verified, hally for d available for customer review	
Name: Business Phone No: E-Mail:	Title: Fax No: Date:		
Contact your customer to determine if this form is available in an electror	hic format or if this form shou	uld be faxed.	





CERTIFICATE OF COMPLIANCE

PURCHASE ORDER & ITEM NUMBER		
ROCHESTER SENSOR'S PART NUMBER _	QUANTITY	

THIS IS TO CERTIFY THAT ALL ITEMS REFERENCED HEREIN ARE IN COMPLETE CONFORMANCE

WITH ALL REQUIREMENTS OF THE REFERENCED PURCHASE ORDER. ALL MATERIALS USED AND APPLICABLE REQUIREMENTS HAVE BEEN VERIFIED AND PERFORMED.

RECORDS AND DOCUMENTS OF THIS CERTIFICATE IS VERIFYING COMPLIANCE TO APPLICABLE CHARACTERISTICS THAT ARE PREPARED, REVIEWED, AND FOUND TO MEET ALL APPLICABLE REQUIREMENTS AND ARE ON FILE AND AVAILABLE FOR REVIEW BY THE PURCHASER. THESE DOCUMENTS WILL BE RETAINED FOR A PERIOD OF 10 YEARS OR LIFE OF THE PRODUCT.

AFTER THE COMPLETION OF THE REFERENCED PURCHASE ORDER.

THE FOLLOWING MATERIAL (S) WERE USED: _____

TRACEABLE LOT IDENTIFICATION USED: _____

THE ABOVE STATEMENTS ARE TRUE, COMPLETE AND CORRECT.

AUTHORIZED SIGNATURE

COMPANY NAME AND ADDRESS:

TITLE

DATE







i0//IC# #DIV/0 #DIV/0i

Qf. 7 10 i0//IC#

Current Supplier Performance Level: YTD Supplier Performance Level:

YTD SPS Rating Average:

SUPPLIER PERFORMANCE SCORECARD (УРО)
FROM:	Current Period:
TILE	Total SPS Rating Possible:
COMPANY:	Current Period SPS Rating Earned:



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for the current period and year-to-date.

											2024												
Catomore	100 Max			Qtr. 1				ð	tr. 2				ð	tr. 3				Qtr. 4		_		ΥTD	YTD
calegory	Pts/Qtr.	Jan	Feb	Mar	Ave	Pts	Apr	May .	un A	Ve	ts Jı	ul Au	is Br	sp Ave	Pts	oct	Nov	Dec	Ave	Pts		Ave	RATING
оттр	30				######	#####			##	#######################################	###			/NIC#	#### i0				# ####	####	>=25 #	i0//IC	#DIV/0!
SPPM	30				######	######			##	###	###			/NIC#	#### i0				#####	• ####	<=100 #	i0//IC	#DIV/0!
Supplier Dissatisfiers	20				######	######			##	###	###			/NIC#	#### i0				#####	####	# 0=	i0//IC	#DIV/0!
Premium Freight	10				######	######			##	###	###			/NIC#	#### i0				#####	####	# 0=	i0//IC	#DIV/0!
Stock-out	10				######	#####			#	##	###			/NIC#	0i ####				#####	####	# 0=	i0//IC	#DIV/0i
	Total Points					#####				#	###				####				74	####			#DIV/0!
	Level					######				#	##				#####				**	###			#DIV/0!
																			<u> </u>				
Performance Levels																							
LEVEL 1: A supplie	r that has achi	eved an (ongoing	level of	90 point	's or abc	we is a	preferre	lddns pe	lier. We	e will rev	ward with	n New pr	oduct deve	lopment a	nd additic	onal bus	iness.					
		-	-				•								-		-	-					

- A supplier that has achieved an ongoing level of 75 to 89 points is performing at an acceptable level. However, if level 2 is achieved twice in a year then the Strategic Sourcing Manager shall work with these supplier to help them get to level 1 performance within a specified period. LEVEL 2:
- A supplier that has achieved an ongoing level of 50 to 74 points has a conditional level of performance. However, if the level 3 is achieved then the Strategic Sourcing Manager communicates with the Supplier by opening a NC with the help of Quality, require corrective actions and onsite Supplier Audit. If level 3 is achieved twice in a row then Supplier is invited to explain to improve their metrics. LEVEL 3:
- ΕVE

LEVEL 4:	A supplier that has achieved an ongoing level of 49 points or below is a restricted supplier. If level 4 is achieved, then Strategic Sourcing Manager will open a NC with the help of Quality, require corrective actions and onsite Supplier Audit. If level 4 is achieved twice in a row these suppliers in any new designs and will seek to exit these suppliers in favor of alternate sources.
NOTES: Actions:	
Rochester	Sensors Proprietary



Page **39** of **51**

Manufacturing Worldwide

Revision: F07/01/2024





ROCHESTER SENSORS, LLC. 1025S. Belt Line Rd. PO BOX 2368, Coppell, TX 75019 (972) 241-2161 FAX (972) 620-1403 ISO 9001:2015

CERTIFICATE OF CONFORMANCE

Part Number:

Supplier Name:

Environmental Reporting - Required

Restricted Chemical Substance Certifications for Rochester Sensors FAI

6A. EPA TSCA

Rochester requires notification if the part contains 1% or more by weight of the following restricted persistent, bioaccumulative and toxic chemicals. We cannot manufacture or sell products in the US if they contain these chemicals. Supplier will be asked to not provide products containing these chemicals:

Final regulations can be found here for the Restricted Chemicals:

- Final rule for phenol, isopropylated phosphate (3:1) (PIP (3:1))
- Final rule for decabromodiphenyl ether (DecaBDE)
 - Final rule for 2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)
 - Final rule for hexachlorobutadiene (HCBD)
- Final rule for pentachlorothiophenol (PCTP)

EPA TSCA Compliant?

Yes

No

If restricted substance is present:

CAS #

6B. REACH Rochester requires notification of all restricted substances contained in this part, both the ppm/percentage by weight as well as the total weight of the part containing the restricted substance. Compliance is considered a maximum content of 0.1%(1,000ppm) Click the following link to obtain a complete list of restricted chemicals on the European Chemicals Agency (ECHA) site: https://echa.europa.eu/substances-restricted-under-reach REACH Compliant? Yes If no or if restricted substance is present: No CAS # PPM Total Weight No







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CERTIFICATE OF CONFORMANCE - Cont'd

6C. RoHS

Rochester requires notification of all restricted substances contained in this part, both the ppm/percentage by weight as well as the total weight of the part containing the restricted substance.

Click the following links for more information about the <u>RoHS Directive 2011/65/EU</u> and the <u>RoHS</u> Amendment (EU) 2015/863.

Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials:

Lead (0.1 %)
Mercury (0.1 %)
Cadmium (0.01%)
Hexavalent chromium (0.1 %)
Polybrominated biphenyls (PBB) (0.1 %)
Polybrominated diphenyl ethers (PBDE) (0.1 %)
Bis(2-ethylhexyl) phthalate (DEHP) (0.1 %)
Butyl benzyl phthalate (BBP) (0.1 %)
Dibutyl phthalate (DBP) (0.1 %)
Diisobutyl phthalate (DIBP) (0.1 %)

Yes

No

No

RoHS Compliant?

If no or if restricted substance is present:

CAS #	PPM	Exemption?	Total Weight

6D. Prop65

Rochester requires notification only about these substances, we do not require special labeling on restriction on them. We do not need to know how much of a restricted substance is in the part, just that it contains it and approximately where, if not throughout the component.

Further information can be found at https://oehha.ca.gov/proposition-65 and a complete list at https://oehha.ca.gov/proposition-65/proposition-65-list

D		C	- 11	
Pro	nns	COM	nuar	11 *
	000	00111	2.00	

Yes

If restricted substance is present:

CAS #	Throughout or What Location







CERTIFICATE OF CONFORMANCE - Cont'd

7. Conflict Material

The definition of "conflict minerals" refers to gold, as well as tin, tantalum, and tungsten, the derivatives of cassiterite, columbite-tantalite, and wolframite, regardless of where they are sourced, processed or sold. The U.S. Secretary of State may designate other minerals in the future. We support these requirements to further the humanitarian goal of ending violent conflict in the Democratic Republic of the Congo (DRC) and in surrounding countries, which has been partially financed by the exploitation and trade of "conflict minerals".

Ensure compliance and perform reasonable due diligence with your supply chains to assure that specified metals are being sourced only from:

• Mines and smelters outside the "Conflict Region" or

• Mines and smelters which have been certified by an independent third party as "conflict free" if sourced within the "Conflict Region".

Yes

Conflict Material Compliant?

Quality Manager or Designee :

Date:

No







Appendix B

<u>Title</u>	<u>Pages</u>
Process Failure Mode Effects Analysis (PFMEA)	44
Supplier Corrective Action Report (SCAR)	45 & 46
Process Control Plan (PCP)	47
Potential Study Data Sheet	48
Gauge Repeatability / Reproducibility Study (Short Method)	49
Gauge Repeatability / Reproducibility Study (Long Method)	50







0 0 0 0 0 0 0 a a z 0 ACTION RESULTS 0 W F **REV DATE:** 000 **мш**> ACTION RESPONSIBLE FOR ACTION PREPARED BY: DATE REVISED RECOMMENDED ACTIONS <u> a</u> z 0 0 0 0 0 0 0 0 οw⊢ PROCESS FAILURE MODES AND EFFECTS ANALYSIS (PFMEA) Detection **Process Controls** ROCHESTER GAUGES, LLC Prevention 000 POTENTIAL CAUSES OF FAILURE Location S S A L C < S POTENTIAL EFFECTS OF FAILURE POTENTIAL FAILURE MODE Pre-Production **PROCESS** FUNCTION MODEL NUMBER: **PFMEA Type CUSTOMER:** PART NAME: CORE TEAM: #



F14026A

Revision B: 7/1/2019

Page 1 of 1

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PFMEA



Supplier Corrective Action Report (SCAR)



If possible, send this form and any s form upon return. The results of this	upporting documentation in ele request will be sent through a	ectronic format through email. Do not writ an e-mail notification whenever possible	e protect this
Rochester Sensors Part Numbe	Γ.	Last U pdated:	
Drawing Revision Leve	l:	Supplier PO #	
Description	1:	SCAR #	
Supplie	r:	RMA#	
Origination Date			
Supplier to acknowledge receipt of this S <u>Note</u> : The Containment Action is requ	CAR and report Containment Actor ired within 3 working days of th	on by the following date: e origination date.	
1) E stablish the Team			
R S Team Member	Title	Email Address	Phone #
Supplier	Title	Email Address	Phone #
2) Define the Problem (Use photos & diag	rama, as needed)		
			# of Units Inspected:
			# of Units Rejected:
			Total Suspect Unite
			Tour suspect offica.
			PPM Defective:
3) Containment Action taken to prever	t defective product from bei	ng used in product	
Rochester Sensors:			Implementation Date:
			Deputto if 100% context
			# of Unite Red:
			# of Units Bad: # of Units Good:
			Total Units Sorted:
Supplier:			Implementation Date:
			Results if 100% sorted
			# of Units Bad:
			# of Units Good:
			Total Units Sorted:
Return Material Au	thorization # if parts a	re to be returned to Supplier.	
		Authorized by:	





Supplier Corrective Action Report (SCAR)







	Control Plan				Part	number field					-
Prot	otype		Control Plan number	Key Contact/Phon	e Number		Original Date			Date Revised	
Pre-	production				1111-1000-000		Customer Engineering Approv	val			
Prod	uction		CP#	Core Team:			Customer Quality Approval				
Part	Number						Other Approvals (as required	()			
Part	Name/Description										
IdnS	hier	Rochester Gauges,	, LLC. Dallas, TX								
			Characteri	stics			Methods				
ssoooad	t Process Name	Machine, Device, Fixture, Tools	Product	Process	Special Char Class	Product/ Process Spec/ Tol	Evaluation/ Measurement Technique	Sam	ple Frea.	Control Method	Reaction Plan
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Potentia If possible, send th	Supplier	Prepared By:	Email:	Phone:	Characteristic	Target	+ Tol	- Tol	USL	LSL	AVE	MAX	MIN	USL-LSL	σ	oe st	Ср	Cpk	CpU	CpL	Pp	Ppk	PpU	L DL
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Process Potential Study A measurement of the inherent precision of a manufacturing process. It is a statistical analysis of production quantities to determine if the process is capable of meeting the quality target as defined by the print tolerances

X-Bar The average value of all 30 measurements on a characteristic.

Standard Deviation A measurement of variation of a set of values about their average value

Cp Process Potential Index – A measure of the process potential; consisting of the tolerance spread (upper spec limit – lower spec limit) divided by the normal process spread (6 standard deviations).

CpK Process Centering Capability Index – A measure of how well the process is centered within the tolerance limits. It consists of the smaller of (upper spec limit – X-Bar), or (X-Bar – lower spec limit), divided by half of the normal process spread (3 standard deviations).









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OChes Senso Innovative Se						Input	lated						X-bar	R-bar						X-bar	R-bar						X-bar	R-bar	å	2	R-Bar	X-Dif	NCL	LCLr	Max Range	Stable?
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