

Custom 100Ω RTD Solution with Quality Control and Flexible Manufacturing from Evergreen

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Sourcing a resistance temperature detector used to mean requesting a single probe and a price. Buyers evaluating a [Custom 100Ω RTD Solution](#) today ask a wider question: does the platform hold its accuracy class across the installation, and can the housing, wiring, and delivery documentation be adjusted to fit the equipment rather than the other way around. Built around the platinum resistance principle, this kind of solution pairs a Pt100 and Pt1000 sensing base with manufacturing controls that carry a project from drawing to delivery. Dongguan [Evergreen](#) Technology Co., Ltd., a Dongguan-based manufacturer of temperature sensors, has structured its RTD line around exactly that pairing, giving industrial, HVAC, and laboratory buyers a documented path from resistance curve to finished probe. The approach reflects a broader shift among RTD buyers, who increasingly treat probe sourcing as an engineering decision rather than a catalog purchase.



Pt100 And Pt1000 Platform Clarity Sets the Baseline

A resistance temperature detector earns its reputation on linearity, not novelty. The platinum element inside a Pt100 or Pt1000 sensor carries a positive temperature coefficient, meaning resistance rises in a predictable, near-linear pattern as temperature increases. That predictability is what lets a calibration engineer trust a reading years after installation.

Evergreen builds its 100 ohm and 1000 ohm RTD offering on this platform, with a standard

temperature coefficient of resistance of 3850 ppm per degree Kelvin and alternative coefficients available where a project calls for them. Class A and Class B accuracy grades, defined under IEC 60751, give buyers a shared reference point when comparing suppliers rather than taking accuracy claims at face value. Put simply: a stable platform is the starting point, not the finished product, and everything downstream depends on getting it right first.

Quality Control Turns Accuracy into Batch-Level Confidence

An RTD that measures precisely on a test bench still fails the buyer if the next batch drifts. The gap between one accurate sensor and a reliable production run is where most sourcing decisions are actually won or lost. A single well-behaved sample says little about what a buyer will receive three months and several thousand units later.



Dongguan Evergreen Technology Co., Ltd. closes that gap with a quality system that follows raw material inspection through to final performance testing, backed by ISO 9001:2015 certification. The company runs its Dongguan operation from a facility spanning roughly 13,000 square meters, supported by an ERP-based manufacturing management system and lean production practices designed to keep output consistent as order volumes scale. For a buyer comparing suppliers, the question is no longer whether one sample can pass inspection; it is whether the hundredth unit in a batch performs the same as the first.

Flexible Manufacturing Covers Housing, Wiring, And Probe Protection

A resistance value on a datasheet only tells part of the story. The probe still has to survive its installation environment, connect correctly to the control system, and fit the physical space it is built into.

Evergreen's customization scope extends from the resistance curve itself into probe housing material, cable length, and wiring configuration, with two-wire, three-wire, and four-wire options available depending on how the sensor is wired into a plant's monitoring system. Stainless steel housing is available as a standard option for buyers who need corrosion resistance, alongside waterproof and high-pressure probe designs for harsher environments. The point for engineers

specifying a custom 100 ohm RTD supplier is that the conversation should start with the installation drawing, not just the resistance table.

Application Fit Extends from Industrial Automation to Laboratory Measurement

RTD sensors carry different expectations depending on where they are installed. Industrial automation and process control lines need continuous, stable feedback across long duty cycles. Calibration standards and laboratory equipment need repeatable accuracy that holds up under scrutiny. HVAC systems need probes that tolerate airflow, condensation, and vibration without losing their reading. A probe engineered for one of these settings rarely performs the same way in another, which is why buyers increasingly ask suppliers to explain the reasoning behind a housing or wiring choice rather than simply quoting a part number.

Evergreen supplies temperature sensors across this range, along with related product lines for household appliances, industrial equipment, and EV charging or battery-monitoring applications where wiring harness temperature protection matters. That breadth lets a single supplier relationship cover a plant's instrumentation needs instead of splitting sourcing across multiple specialists for each application.

Dongguan Manufacturing Base Adds Capacity Behind Every Order

A custom RTD project is only as dependable as the factory standing behind it. A supplier can design an excellent probe and still miss a delivery window if the plant behind it cannot absorb an unexpected order increase.

Evergreen expanded its Dongguan production base earlier this year, doubling its production area and adding a Class 1000 cleanroom alongside an Industry 4.0 manufacturing upgrade. The expansion was built to shorten lead times and support larger bulk orders without sacrificing the batch-level consistency the company's quality system is designed to hold. For buyers evaluating a Custom 100Ω RTD Solution against a project timeline, that capacity is part of the sourcing decision, not a separate consideration from the sensor specification itself.

A Practical Path from Requirement to Quote

None of this removes the work a buyer still has to do before requesting a quote. Temperature range, accuracy class, preferred TCR, probe housing, wiring configuration, cable length, and connector type all shape the final design, and the more of that information a buyer brings forward, the faster an engineering team can turn a requirement into a workable sample. Evergreen's standard products carry a minimum order quantity as low as five pieces depending on the model, with customized designs typically requiring a higher minimum given the engineering work involved. Treating the RTD specification as a two-way conversation, rather than a one-line request, tends to shorten the distance between a first inquiry and a working sample.

Evergreen is certified to ISO 9001:2015 and ISO 14001:2015, reflecting a management approach built around quality consistency and environmental responsibility across its temperature sensor and RTD manufacturing lines. Buyers preparing a Custom 100 ohm RTD Solution inquiry can gather their installation requirements and reach the company's engineering team at <https://www.egn-tech.com>

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