

Answer on question #85183, Engineering / Electrical Engineering

What is the equation relating temperature and resistance for an RTD calibrator?

Solution

Equation relating temperature and resistance for an RTD calibrator:

$$R_T = R_{ref}(1 + \alpha(T - T_{ref}))$$

Where:

R_T - RTD resistance at current temperature T in ohms,

R_{ref} - the RTD resistance at a reference temperature T_{ref} in ohms,

α - temperature coefficient of resistance

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