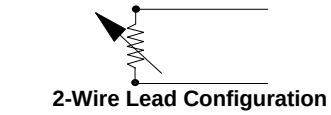
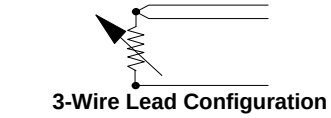
RTD PROBES

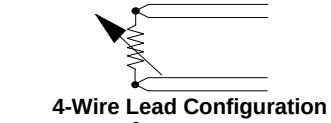
Where high accuracy and long term stability in industrial temperature measurements are required, Indumart's Resistance Temperature Detectors (RTDs) are superior in performance. Our standard assembly is constructed using a 3-wire, Pt-100 RTD element with an average temperature coefficient of +0.00385 Ohms/Ohm/°C (between 0°C to 100°C), housed in a stainless steel sheath and electrically insulated from the sheath. The 4-wire arrangement is also available to fully eliminate leadwire effects for high accuracy applications.



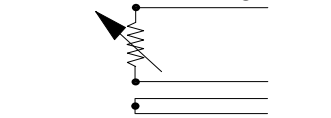
2-Wire Lead Configuration



3-Wire Lead Configuration



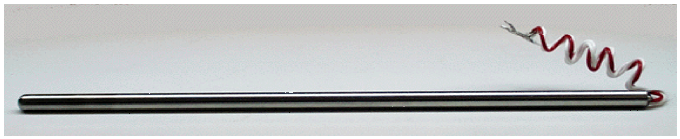
4-Wire Lead Configuration



4-Wire Special Lead Configuration

TERMINATION STYLE

Basic Termination - The simplest construction consist of a 316 stainless steel protection tube and a choice of Teflon or PVC wire insulations. The leads can be as long as required to attach to the instrumentation system.



Double Ended Fitting, Fixed or Spring Loaded - This construction allows for process connection and the connection of a termination head or other fitting over the transition. Fitting can be fixed or spring loaded.

Connection Head Termination - Connection head allows access to the wire leads. The head may be supplied with a terminal block for connecting the extension wires. Explosion Proof Heads are available.

TYPE	PLATINUM	
RESISTANCE @ 0°C	100 Ù	1000 Ù
TEMPERATURE RANGE	-200...600°C (-328...1112°F)	
TEMP. COEFF. OF RESISTANCE	0.003850 Ohms/Ohm/°C	
STABILITY	±0.05% after thermal cycling for 10 times	
PROBE MATERIAL AND SIZE	316 stainless steel; outside diameter: 0.25"	
SELF HEATING ERROR @ 0 °C	±0.3°C with 10 mW dissipated in the element	

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