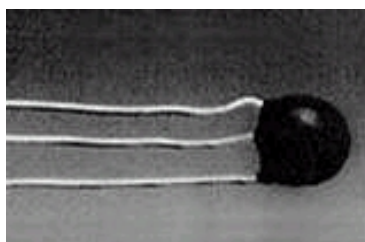




Linear Thermistor Network (LTN)

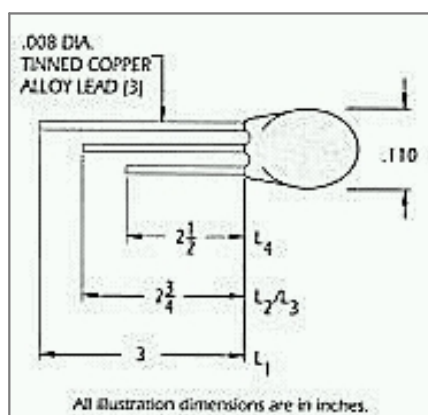


Honeywell Linear Thermistor Network (LTN) consist of precision resistors thermistors which are designed to produce a resistance change or voltage output that varies linearly with temperature over the selected

temperature range. They provide a sensitivity that is hundred times greater than that of thermocouples or wire wound resistance bulbs. The Composite Series consists of one twin thermistor two precision resistors, and is designed to provide greater in mounting and location. These are also available in probe assemblies to your specifications and are ideally suited for where space must be considered in existing or newly designed circuitry.

Features

- Simplifies circuitry in digital readout systems
- Interchangeability for unit to unit
- High accuracy
- Greater sensitivity than wire wound resistance bulbs or thermocouples
- May be PC board mounted or purchased as individual components to allow design flexibility
- No known reference temperature or cold junction is required thermocouples
- May be used in either a voltage or resistance mode



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Linear Thermistor Network (LTN) Specifications			
	137-462ZWS D01	137-113ZXT-D01	137-292ZFT-D01
With Resistors:			
Without Resistors:	133-462ZWS D50	133-113ZXT-D50	133-292ZFT-D50
Temperature Range	-5 °C to 45 °C	-30 °C to 50 °C	0 °C to 100 °C
Interchangeability	0.308 °C	0.284 °C	0.331 °C
Max. Linearity Deviation	0.067 °C	0.256 °C	0.283 °C
Resistance Mode Slope	-40.178	-152.79	-21.433
Resistance Mode Zero Intercept	5613.2	14567	3425.7
Positive Voltage Mode Slope	5.756 ³	6.852 ³	5.399 ³
Positive Voltage Mode Zero Intercept	1.958 ¹	3.468 ¹	1.371 ¹
Negative Voltage Mode Slope	5.756 ³	6.852 ³	5.399 ³
Negative Voltage Mode Zero Intercept	8.0425 ¹	6.5235 ¹	8.6295 ¹
Resistance Mode Max. Current	650 μA	500 μA	700 μA
Voltage Mode Max. Current	323 μA	171 μA	402 μA
Voltage Mode Max. Input Voltage	2.250 V	3.813 V	1.596 V

