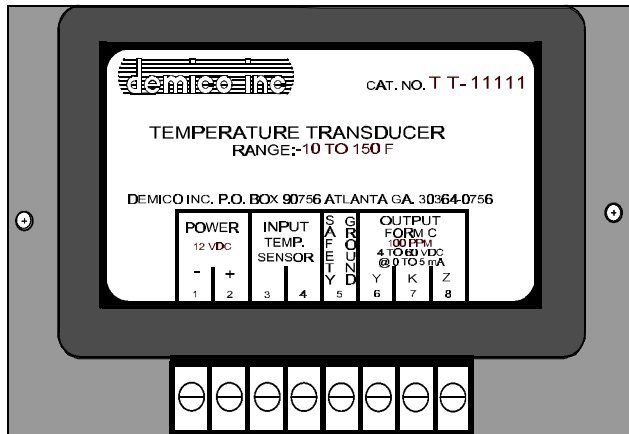


TEMPERATURE TRANSDUCER (KYZ)



- ◆ KYZ PULSE OUTPUT
- ◆ ONE DEGREE F ACCURACY
- ◆ INTERCHANGEABLE SENSORS
- ◆ WATER TIGHT SENSOR
- ◆ SENSOR CABLE TO 1000 FEET
- ◆ SENSOR CABLE CAN BE SHORTER
- ◆ 3 TEMPERATURE INPUT RANGES
- ◆ AC OR DC POWER SUPPLIES

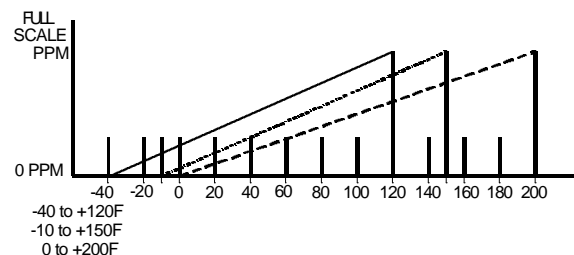
APPLICATIONS

REMOTELY MONITOR INDOOR OR OUTDOOR TEMPERATURES IN SUBSTATIONS, RTU'S, EQUIPMENT ENCLOSURES, COOLING SYSTEMS, ETC. MEASURE AMBIENT AIR TEMPERATURES FOR MAXIMUM TRANSMISSION LINE LOADING. CORRELATE AND PREDICT PEAK LOADING WITH AMBIENT TEMPERATURE.

Temperature is one of the most important variables to monitor in a Generation, Transmission, or Distribution system. Peak Demands typically occur at ambient temperature extremes so monitoring local substation temperature can provide data to help predict demand. Electrical and electronic equipment can malfunction at extreme temperatures. Monitoring substation house temperature and electronic control enclosure temperatures can give advance notice when environmental controls malfunction. Repairs can be made before your system controls malfunction. Monitoring cooling water temperature before discharge into streams and rivers is mandatory to comply with government regulatory agency requirements.

The Demico Temperature Transducer (TT) is designed to easily and accurately monitor various temperatures throughout your Generation, Transmission, and Distribution system. The temperature measuring system has a low profile, flush mounted interface enclosure which can be mounted in an RTU cabinet, or substation house. A 3/8" diameter by 3" long cylindrical waterproof sensor with 100 feet of cable is included. Sensors with up to 1000 feet of cable can be ordered. Cable length can be altered in the field without having to re-calibrate. The sensor technology is a precision linear thermistor network which provides excellent accuracy over a wide temperature range, excellent long term stability, and sensor interchangeability with no re-calibration.

The one degree Fahrenheit accuracy is specified across



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the wide operating temperature range to give dependable data year round even without a climate controlled environment.

This transducer is designed for use in the electrically noisy substation environment and meets the surge withstand requirements of ANSI 37.90.1-1989. The manufacturing process for Demico Transducers include:

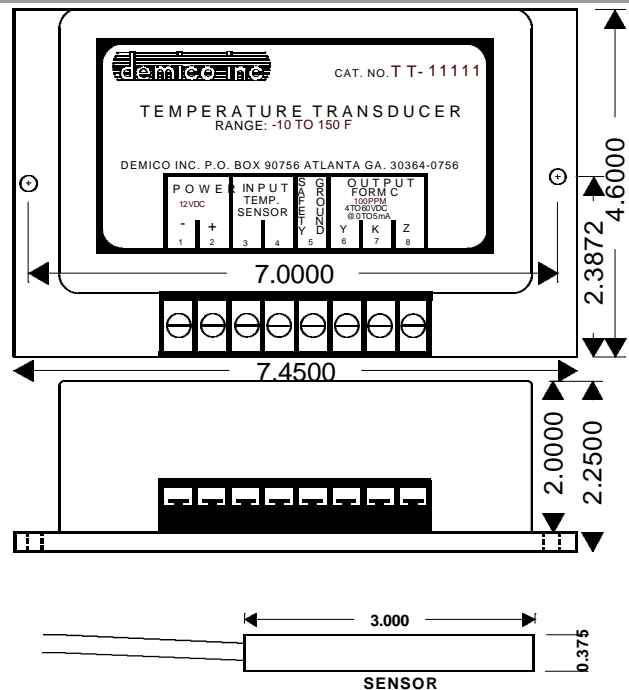
1. Boards are coated with Polyurthene coating.
2. Burn in for 100 hours at 110 degrees F .
3. Power cycled every 12 hours during burn in.
4. A 1500 VAC isolation test during final testing.

Demico takes these steps to ensure that our transducers provide good service over a long life. Demico's standard one year warranty includes parts and labor.

Note: Demico also has a Temperature transducer with 0-1mA analog output to interface with standard RTU equipment. See data sheet TT.

Specifications

Accuracy	+/- 1 degree F
Output Contacts rating	4mA @ 60V max
Operating Temperature	-20 to +70 degrees C
Humidity	(polyurethane coated)
Maximum power	4 VA
Tested Isolation	1500 VAC
Surge Withstand	ANSI 37.90.1-1989
Enclosure	Black Phenolic
Terminals	8-32 with wire clamps
Warranty	1 year Parts & Labor



CATALOG PART NUMBER

Diagram illustrating the catalog part number structure: **TT-1-1-1-1-1-1-1**

1ST LETTER = PRODUCT IDENTIFICATION LETTER
 2ND LETTER = PRODUCT IDENTIFICATION LETTER
 3RD NUMBER = POWER SUPPLY VOLTAGE
 4TH NUMBER = INPUT RANGE
 5TH NUMBER = OUTPUT CONTACT
 6TH NUMBER = OUTPUT PULSES PER MINUTE
 7TH NUMBER = OUTPUT WETTING VOLTAGE

POWER SUPPLIES	TT RANGES	KYZ OUTPUT CONTACTS	PULSES PER MINUTE	WETTING VOLTAGE
1 = 12 VDC	1 = -10 TO 150F	1 = FORM C	1 = 100 PPM	1 = 0 To 60 VDC
2 = 24 VDC	2 = -40 TO 120F	2 = FORM A	2 = 200 PPM	
3 = 48 VDC	3 = 0 TO 200F		3 = 300 PPM	
4 = 125 VDC	4 = RTD & SPECIFY RANGE		4 = 600 PPM	
5 = 250 VDC			5 = 1200 PPM	
8 = 120 VAC			6 = SPECIFY	
9 = 240 VAC				