

KEP One Minute Training

TP-550 SERIES

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What Is It?

The TP-550 is a 5 digit Temperature/Process Monitor that can be purchased with or without alarm outputs. The TP-550 has a programmable operating curve for standard signals, thermocouples and resistance thermometers. The display range is -19999 to 99999.

The TP-550 can be used as a Temperature or Process monitor. The TP-550 incorporates the operating curves for Thermocouple types (B, C, D, E, G, J, K, L, N, R, S, T, U). The input ranges for RTD are PT100 and PT1000. Resistance type inputs are 0-400 ohms and 0-4000 ohms. Other input types are 0-100mV or -100 to +100mV.

The TP-550 also has a programmable operating curve with up to 24 points allowing the use of economical sensors. The unit also accepts 2, 3, or 4 wire type sensors and can be programmed to display degree's C or degree's F.

The TP-550 has two SPDT relay outputs that are rated at (250Vac @ 3A). The relays also have a programmable hysteresis that can be programmed as follows (on, off, on/off)

Technical Data:

Operating voltage: 90 to 260Vac or 10 to 30Vdc.

Maximum consumption: 6VA (Vac) or 2W (Vdc)

Resolution: 14 bit.

Measuring Speed: 1 to 4 measurements/sec.

Accuracy: 0.1% +/- 1 digit

Protection: IP 65 (Front)

Data Retention: EEPROM (1 million cycles or 10 yrs)

Where Is It Used?

The TP-550 can be used in temperature and process monitoring applications where there is a need to monitor or warn of a potential problem.

Fertilizer Plant:

A customer of KEP's makes fertilizer and must keep the fertilizer between a certain temperature range for the first 72 hours to ensure the proper breakdown of the product. Maintaining the product at a proper temperature range is critical to the overall process.

The TP-550's job is to monitor the temperature of the product. If the product temperature goes above or below the acceptable range the TP-550 will sound an alarm to warn the operator on the factory floor. The operator will then check system for any malfunctions.



Typical Applications:

Temperature and Process Monitoring

Temperature Alarming