



## Temperature & Process Instruments, Inc.



### Introducing

### Temperature & Process Instruments, Inc.

- MIST Series Microprocessor based Integrated Sensor Transmitter
- Portable and Benchtop Temperature and Process Calibrators
- Portable and Laboratory Dry Block Calibrators
- Portable Infrared Thermometers
- Din Rail or Head Mounted Transmitters
- Indoor Air Quality Instruments (IAQ)

Temperature & Process Instruments Inc.

1767 Central Park Avenue

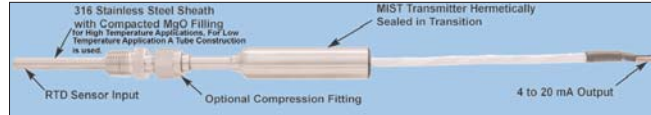
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Web Site: [www.tnp-instruments.com](http://www.tnp-instruments.com)

## MIST Temperature Sensor Series and Indoor Air Quality



### Features:

- Microprocessor Based Integrated linearized 4 to 20mA Transmitter
- Wide Temperature Measuring Range -200°C to +600°C (-364°F to +1112°F)
- High System Accuracy  $\pm 0.25^\circ\text{C} + 0.40\%$  of reading
- Power supply 2 to 36 Vdc, polarity protected
- Electronics hermetically sealed within the sensor
- Lower cost and easy installation
- Compact Size - Transition is only 2" long and 0.65" Diameter
- Field programmable with optional PC based interface module and MIST-ical software



**MIST Series Prices Start at \$250.00**

### Indoor Air Quality Instruments and Temperature, Humidity, Dew Point and Air Flow Instruments



- AQ-100S Carbon Dioxide and Ambient Temperature Hand Held Meter
- VT-100E Mini Air HW PRO Anemometer
- LV-107S Mini Air Probe Hand Held Vane Thermo-Anemometer
- HD-100S Humidity, Dew Point and Temperature Thermo-Hygrometer Hand Held Meter

**Prices Start at \$399.00**

For Additional Information Visit our Web site at: <http://www.tnp-instruments.com>

## MultiFunction Benchtop or Hand Held Calibrators

Multi-Function Calibrators combine the features of single function calibrators into a compact package which will calibrate virtually any process instrumentation or temperature



signal you have including Thermocouples, RTD's, Ohm, Voltage, Current, Pressure, and Frequency. In addition models are available with datalogging and real time graphing capability. By combining all the functionality into one unit you no longer need



to carry multiple instruments in the field. These calibration units are designed to meet the demanding requirements of instrumentation engineers, technicians and Quality Control personnel at the laboratory bench or in the field. Ideal for calibrating and troubleshooting temperature sensors, control systems, and transmitters. You will find the multifunction calibrator that fits your needs.

### Models include:

- Single channel and dual channel models
- Read and source temperature signals for thermocouples and RTD's
- Read and source process signals milliamps, millivolts, Voltage and Frequency

**Multifunction Calibrators Prices Start at \$1045.00.**

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## Single Function Handheld Temperature & Process Calibrators

If you do not need the functionality of a multifunction calibrator, but still need the accuracy of a multifunction calibrator choose from our selection of Single function handheld calibrators. These compact hand held models include, thermocouple/mV, current and voltage. Each model can read and source the specific parameters. These single function calibrators are ideal for troubleshooting sensors and instruments in the field or on the workbench.



### Models

• **TC-100** - The TC100 Thermocouple/mV Calibrator provide high accuracy and measurement of 10 common thermocouples, as well as mV. The TC100's accuracy of  $\pm 0.3$  °C for Type J T/Cs includes all errors, at resolutions of 0.01°C or °F in measure mode, and 0.1°C or °F in source mode.

• **LC-100** Precision 4 to 20 mA Loop Calibrator - The LC100 Precision Process Milliamp Loop Calibrator provides significantly extended performance when compared to many competitive calibrators. With an accuracy of 0.015% of reading, with 0.001 mA resolution, the LC-100 has the highest accuracy in its class.



### • MS-420 Low Cost Process Loop Calibrator

The MS-420 Mini-Source multi purpose process loop tool offers high accuracy in an ultra-small, rugged package. The MS-420 Mini Source Process Calibrator has the ability to calibrate or troubleshoot any 4 to 20mA process loop device.

**Single Function Calibrators Prices Start at \$240.00**

## Portable Infrared Thermometers

Choose from a comprehensive line of Handheld Infrared Thermometers for Automation and Process Applications. Non contact infrared thermometers are designed to simplify temperature measurements at distance from a target and to identify hot spots. Models are available with laser sighting, MIN/MAX and delta T functions, adjustable emissivity, alarms, and dat logging. Measures temperature up to 5432°F (3000°C). These hand held infrared come with a wide choice of optics to meet most industrial applications needs.



### Models



The **PSC-PLMS Series** infrared thermometer is ergonomic designed and economically priced with high value features in mind, including a wide temperature range, laser sighting, F/C switchable, fixed emissivity, Min, Max and hold function allows is standard.

### NEW PSC-90 Portable High Performance Infrared Thermometer

- Sharp adjustable focus with precision optics
- High accuracy/repeatability
- Measures wide temperature range 1112 to 5432°F (600 to 3000°C)
- Read temperature in viewfinder or on large LCD display
- Data logging up to 1000 temperature readings



**Infrared Prices Start at \$175.00**

**For Additional Information Visit our Web site at:**  
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## Dry Block Calibrators Head Mounted Transmitters

Portable and Benchtop Dry Block Calibrators are used to calibrate and verify temperature sensors, including thermocouples, RTD's and MIST sensors. The UCAL400 portable dry block calibrator with a temperature range up to 430°C (806°F) or TCAL benchtop calibrators with a temperature Range of -25 to 650°C (-13 to 1202°F).



**Dry Block Calibrator Prices Start at \$1981.00**

The MP82000 Series of DIN Rail or head mounted transmitters are based on an advanced microprocessor design providing 2-wire, 4 to 20mA output transmitters for almost all applications.



Whether you require low budget transmitters or fully isolated and linearized transmitters, programmable models for thermocouple, RTD's, mV or Ohm, or dedicated RTD input. Options include HART® protocol, Factory Mutual and ATEX Intrinsic safe.

**MP82000 Series Transmitter Prices Start at \$65.00**

**For your convenience**  
**Temperature & Process Instruments, Inc.**  
accepts these major credit cards. Visit us at:  
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