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## ST2200

# Verifies Soldering Iron Integrity



ST2200 Soldering Iron Tester with WST02B Thermocouple Solder Bead Sensor

### Precise Thermocouple Sensors Simulate Actual Solder Joints

The ST2200 Soldering Iron Tester gives you a choice of interchangeable sensors designed for utmost accuracy. Includes Sensor WST02B, Type K Probe, Handbook, Sensor Cleaning Brush. Specify °F or °C, 115 or 220V AC.

The WST02 Thermocouple Solder Bead Sensor simulates a solder joint. Measures tip temperature of most small (<1/8") conical, chisel and screwdriver type soldering tips. It provides excellent thermal transfer when the solder is melted by the iron and gives a good representation of effective working tip temperature. Small to medium tips 0.2gr mass.

The WST02B Thermocouple Solder Bead Sensor (shown on the tester) measures tip temperature of most small (<1/8") conical, chisel and screwdriver type soldering tips. Has a "bracket" or position stop to guide iron tips for repeatable measurements. Small to medium tips 0.2gr mass.

The WST03 Elevated Wire Sensor May be used on larger tips. Lets the operator measure temperature at an exact point on the iron tip.

### Replacement Sensors and Kits

**KST2200 Q.C. KIT:** includes ST2200 Soldering Iron Tester, WST02B Thermocouple Solder Bead Sensor, spare Sensor, TC801P Solder Pot Probe, WST34 Case, Handbook. Specify °F or °C, 115 or 220V AC.

**KST2203** Same as KST2200 but substitute WST03 Elevated Wire Sensor.

**WST34** ESD Protected Carrying Case

**WST02KIT** Rebuilding Kit includes: Sensors, Screw, & Plugs.

**WST02BKIT** Rebuilding Kit includes: Sensors, Screw, & Plugs.

**WST03KIT** Rebuilding Kit includes: Sensors, Screw, & Plugs.

### Specifications

Temperature Range	50°F to 300°F (10°C to 700°C)
Temperature Accuracy	Accuracy: ±0.1% of reading ±1 digit
Resolution	Resolution: 0.1°F or 1°F
Tip Ohms Range	0-99.9Ω
Tip Ohms to Ground Accuracy	Accuracy: 0-20Ω ±0.1Ω
Resolution	20-100 ±0.5% of reading Resolution: 0.01Ω and 0.1Ω
Tip mV to Ground Range	0 - 30 mV
Tip mV to Ground Accuracy	Accuracy: 0-20mV ±0.1mV
Resolution	Resolution: 0.01mV and 0.1mV

### Features

- Output to recorder: 1 mV/°F, 100 mV/mV, 100 mV/Ω.
- Transient voltage spike detector detects transients over 100 mV and 1μs pulse width.
- MIL-SPEC pass/fail warning light for voltage and resistance test. User selectable 5 or 2 Ω .
- Function selection switch for fast tests without moving the iron tip.
- Auxiliary AC convenience outlet powers iron under test and insures common ground with the tester.
- Built-in thermocouple connector for type K probes. Wire probe included.
- Comprehensive Operators Handbook with calibration instructions and troubleshooting guide.
- Wrist strap tester verifies strap integrity. • ESD safe construction.

#### NIST CERTIFICATION

NIST Certification is included in delivery with the ST2200.



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## Precise Thermocouple Sensors Simulate Actual Solder Joints

The **ST2200 Soldering Iron Tester** gives you a choice of interchangeable sensors designed for utmost accuracy.



The **WST02 Thermocouple Solder Bead Sensor** simulates a solder joint. Measures tip temperature of most small (<math><1/8\text{''}</math>) conical, chisel and screwdriver type soldering tips. It provides excellent thermal transfer when the solder is melted by the iron and gives a good representation of effective working tip temperature. Heavy Duty sensor, small to medium tips 0.2gr mass.



The **WST02B Thermocouple Solder Bead Sensor** (shown on the tester) Measures tip temperature of most small (<math><1/8\text{''}</math>) conical, chisel and screwdriver type soldering tips. Has a "bonnet" or position stop to guide iron tips for repeatable measurements. Heavy Duty sensor, small to medium tips 0.2gr mass.



The **WST03 Elevated Wire Sensor** May be used on larger tips. Lets the operator measure temperature at an exact point on the iron tip. For all tip sizes.