Electronic Development Labs, Inc.
The Temperature People®
Since 1943

# SURFACE TRANSFER STANDARD
## STS-SC1, STS-SC2


| Model Number | STS-SC1 (High Range) | STS-SC2 (Mid-Range) |
|---|---|---|
| Temperature Range | Ambient to 650 °C | Ambient to 350 °C |
| Block Material | Precision Machined Brass | Precision Machined Aluminum |
| Block Size | 5.08cm (2") | |
| Unit Size | 30.48cm (12") x 25.40cm (10") x 35.56cm (14") | |
| Weight | 8.62kg (19lbs.) | 6.35kg (14lbs.) |
| Stability | 0.05 °C (over 30-minute period) | |
| Resolution | 0.1 °C | |
| Accuracy | ± 2.0 °C | |
| Uniformity | ± 0.5 °C | |
| Heat Up | 100 °C in ~10 minutes<br>300 °C in ~20 minutes | |
| Fast Cool | 200 °C in ~40 minutes | |
| Interface | RS-232 Interface and iTools | |
| Power | 120VAC, 10amp, 50/60Hz<br>*Available in 240VAC (Add -2 to Model Number; EX: STS-SC1-2) | |

*Available as Reference System (with calibrated pyrometer, extender lead, and reference thermocouple): add (-REF) to part number. *May be ordered drilled (Part#: STS-SC1-1-PRT) to accommodate calibrated 1/8" PRT Reference Sensor (Sold Separately / Part#: STS-PRT-V-9)*

**Features**

**• STS Units Available to Cover Temperature Ranges from Ambient Up to 650 °C (Precision Machined Brass & Aluminum Blocks)**
**• Stability of < ± 0.05 °C at Temperatures as High as 650 °C • Available as a Complete Reference System • Available Drilled for 1/8" PRT Reference**
**• Standard 5.08cm (2") Block Allows for Easy Calibrations of Virtually Any Surface Sensor (4" block version available)**
**• Lightweight & Easy to Use (Unit Weighs Under 20 lbs.) • Completely Portable – For Use in Lab or in Field • Includes NIST Traceable Calibration Certificate**
**• 12-Month Warranty • Data Is Easily Collected & Downloaded to the Computer Through RS-232 • iTools Comes Standard**

The STS family of calibrators offer a uniform and stable surface for accurately testing surface sensors, regardless of style. They are easy to use and offer consistent results. Available in a mid-range version featuring a precision machined Aluminum block, or a high-range version with precision machined Brass block, units are available to accommodate virtually any temperature requirement. The STS weighs in at <20 lbs., is lightweight and compact, and they are easily moved from lab to production floor as needed.

Featuring a stability of < ± 0.05 °C, the STS will remove doubts from your surface sensor measurements. These calibrators are often used to verify sensors before, during and after shifts. Featuring quick heating and cooling times, these easy to use calibrators allow the user to check multiple sensors at numerous temperature points throughout one work day. The STS utilizes a high-quality controller that allows a set point resolution of 0.1°. They were designed with the user in mind and are shipped pre-programmed. Simply plug the STS in, set the desired temperature point (wait a few minutes to reach the set temperature), and begin checking probes. The STS-SC1 (high-range) is equipped with a Brass block, and may be used for calibrations from Ambient up to 650 °C. The STS-SC2 (mid-range) is supplied with an Aluminum block, and may be used for calibrations from Ambient up to 350 °C. Both versions have a stability of < ± 0.05 °C and uniformity of ± 0.5 °C.

The STS is equipped with an internal thermocouple that controls the temperature of the block, and an external reference jack for use as a complete Reference System. Available in either 120VAC or 240VAC, EDL will accommodate the cord configuration to match your home country's power requirement. All EDL calibrators are made in the USA and tested for stability and uniformity before shipping. The STS may be purchased as a Reference System (including calibrated pyrometer, reference sensor and extender lead) and/or drilled to accommodate an external PRT. The STS is also available with a large 4" precision machined testing block, (part number STS-SC2-4), and in a low temperature version (STS-COOL), accommodating temperatures from -34 °C up to 38 °C (-30 °F to 100 °F).

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