

# TP Series Thermal Plates

INSTECH® FOCUS ON EXCELLENCE



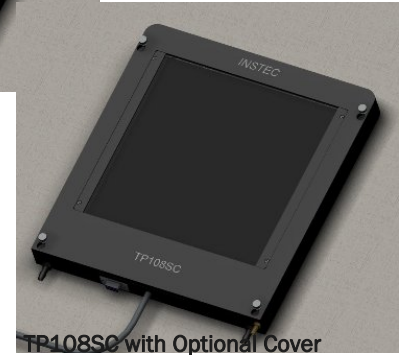
#TP-Series-60320

InsteC TP Series thermal plate systems provide ultra temperature uniformity and stability (better than  $\pm 0.1^{\circ}\text{C}$ ). The flat surface of the Hot and Cold Plate is precision temperature controlled and ideal for FPD (Flat Panel Display) evaluation.

InsteC's basic thermal plate systems consist of a thermal platform, a STC200 Series standalone temperature controller, and WinTemp - a Windows based software.

## Features

- Peltier Based Thermal Platform Systems
- Programmable Precision Temperature Control from  $-30^{\circ}\text{C}$  to  $90^{\circ}\text{C}$  with  $0.1^{\circ}\text{C}$  Temperature Precision
- Thin Enough to Sit on Microscope or Other Probing Stages
- Optional Cover for Gas Purge and Defrosting of Sample Area
- Optional Spacer to Increase Sample Chamber Height
- Controlled Fast Heating and Cooling Rate
- Configured with STC200 Standalone Temperature Controller with RS232 Communication Port and Windows Based Software
- Optional IEEE488 Communication Port
- Free LabVIEW Drivers for IEEE488 and RS232
- Ideal for LCD (Liquid Crystal Display) Evaluation



## Technical Specification

Model	Sample Area	Temperature Range
TP104SC	4" x 4"	$-30^{\circ}\text{C}$ to $90^{\circ}\text{C}$
TP106SC	6" x 6"	$-30^{\circ}\text{C}$ to $90^{\circ}\text{C}$
TP108SC	8" x 8"	$-30^{\circ}\text{C}$ to $90^{\circ}\text{C}$
TP10CSC	12" x 12"	$-30^{\circ}\text{C}$ to $90^{\circ}\text{C}$

Temperature Control Sensor	Platinum RTD
Control Method	PID, variable DC power output
Temperature Range	$-30^{\circ}\text{C}$ to $90^{\circ}\text{C}$
Temperature Precision	$0.1^{\circ}\text{C}$
Temperature Stability	$\pm 0.1^{\circ}\text{C}$ at $37^{\circ}\text{C}$
Minimum Heating and Cooling Rate	$\pm 0.1^{\circ}\text{C}/\text{Hour}$
Temperature Uniformity	$\pm 0.1^{\circ}\text{C}/\text{cm}$ or $\pm 0.25\%$ of set temperature (option for greater temperature uniformity available)
Maximum Heating Rate	$+30^{\circ}\text{C}/\text{Min.}$ at $37^{\circ}\text{C}$
Maximum Cooling Rate	$-30^{\circ}\text{C}/\text{Min.}$ at $37^{\circ}\text{C}$
Height	Approximately 1" (without cover)

Contact InsteC today for further product information. Inquires for a hot and cold stage, a hot and cold chuck, a hot and cold plate, and/or the liquid crystal testing products customized to your special requirements are also welcome. Above information is subject to changes without notice.

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## Ordering Information

Part Number	Description
TP104SC-STC20A	TP104SC, 4" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 115V.
TP104SC-STC20U	TP104SC, 4" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 230V.
TP104SC-Cover1	Optional Cover for TP104SC, 3.6" x 3.6" viewing window.
TP104SC-Cover2	Optional Cover for TP104SC, no viewing window.
TP106SC-STC20A	TP106SC, 6" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 115V.
TP106SC-STC20U	TP106SC, 6" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 230V.
TP106SC-Cover1	Optional Cover for TP106SC, 5.6" x 5.6" viewing window.
TP106SC-Cover2	Optional Cover for TP106SC, no viewing window.
TP108SC-STC20A	TP108SC, 8" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 115V.
TP108SC-STC20U	TP108SC, 8" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 230V.
TP108SC-Cover1	Optional Cover for TP108SC, 7.6" x 7.6" viewing window.
TP108SC-Cover2	Optional Cover for TP108SC, no viewing window.
TP10CSC-STC20A	TP10CSC, 12" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 115V.
TP10CSC-STC20U	TP10CSC, 12" thermal plate configured with STC200 temperature controller. RS232 Communication Port With WinTemp software. Input voltage 230V.
TP10CSC-Cover1	Optional Cover for TP10CSC, 11.6" x 11.6" viewing window.
TP10CSC-Cover2	Optional Cover for TP10CSC, no viewing window.

### Accessories

Optional Parts for STC200	Please refer to the STC200 Temperature Controller brochure for add-on STC200 controller optional parts (e.g. IEEE-STC200: IEEE 488 communication port).
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