

# High Temperature Pressure Mapping Sensors

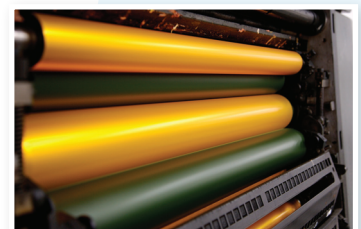
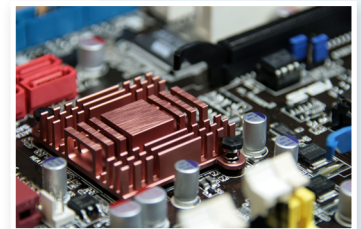
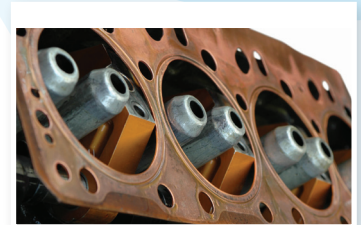
For the I-Scan® System



Up to  
200°C  
(400°F)

Tekscan® high temperature sensors can map the pressure distribution between two surfaces that are as hot as 200°C (400°F). High Temperature sensors are ideal for process/design improvement, machine set-up, and quality control. These flexible, 0.2 mm (0.008 in.) thin sensors can unobtrusively measure pressure distribution in a variety of applications.

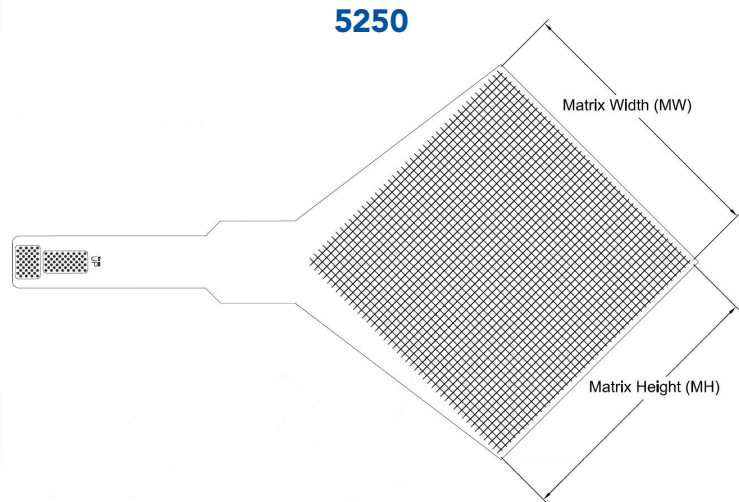
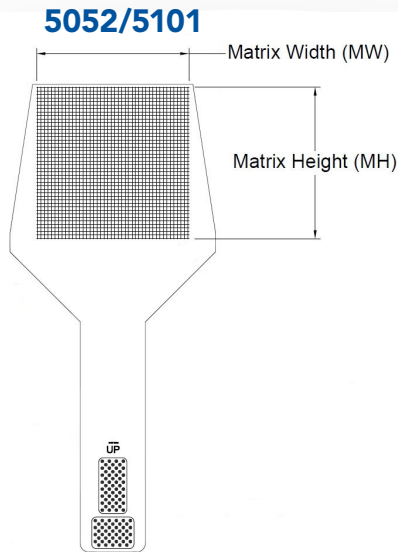
- Molds
- Gaskets
- Heat Sinks
- Sealing Bars
- Pinch Rollers & Nips



## SENSOR PERFORMANCE

Sensor Property	High Temperature
Operating Temperature	Up to 200°C (400°F)
Linearity	<± 1.2%
Repeatability	<± 3.5%
Hysteresis	<3.6% of full scale
Drift	3.3%
Thickness	0.2 mm (0.008 in.)
Sensel Density	Up to 61 per sq. cm (400 per sq. in.) Pitch as fine as 1.27 mm (0.050 in.)

Tekscan offers 3 standard sensors in High Temperature, which are maintained in inventory. (The stocked sensors can cover a wide range of pressures but when ordering a High Temperature sensor desired max pressure of range and application temperature should be specified.) Please go to [www.tekscan.com/pressure-mapping-sensors](http://www.tekscan.com/pressure-mapping-sensors) for complete specifications.



Sensor Model #	Sensor Map	Range of Max Pressure Settings*	Sensing Matrix Width x Height	Applicable Temperature Range
5052HT-HIGH	5052HT	551 - 3,000 psi (3,800 - 20,684 kPa)	55.9 mm x 55.9mm (2.20 in. x 2.20 in.)	~21 - 204°C (~70 - 400°F)
5052HT-MED-HIGH	5052HT	101 - 550 psi (698 - 3,792 kPa)	55.9 mm x 55.9mm (2.20 in. x 2.20 in.)	
5101HT-MED-LOW	5101HT	21 - 100 psi (145 - 689 kPa)	111.8 mm x 111.8 mm (4.40 in. x 4.40 in.)	
5101HT-HIGH	5101HT	551 - 3,000 psi (3,800 - 20,684 kPa)	111.8 mm x 111.8 mm (4.40 in. x 4.40 in.)	
5250HT-MED	5250HT	40 - 200 psi (275 - 1,380 kPa)	245.9 mm x 245.9 mm (9.68 in. x 9.68 in.)	

\*Adjustable sensitivity feature of I-Scan® is required to support specified pressure and temperature ranges. Values outside of the specified range are not supported.

Many of Tekscan's wide range of standard pressure sensors can be manufactured in a high temperature configuration. Tekscan can also develop custom high temperature tactile pressure sensors to specified shapes and pressure ranges for specific applications.

### HIGH TEMPERATURE TAB EXTENDER

The high temperature tab extender connects to the tab of a Tekscan sensor providing a longer lead to the Tekscan data acquisition electronics. Sensors can now be put in hard to reach places or applications where the data acquisition electronics need to be a safe distance from the heat source.



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FOR A DEMONSTRATION!**