

High Temperature Pressure Mapping Sensors

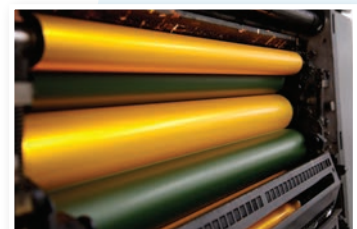
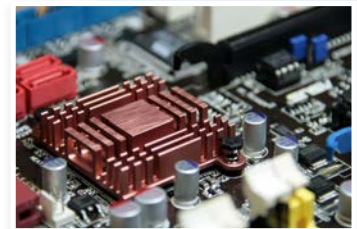
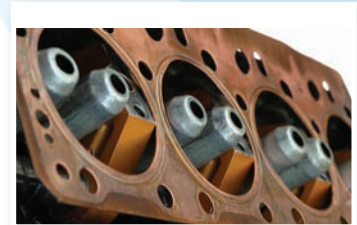
For the I-Scan® System



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.

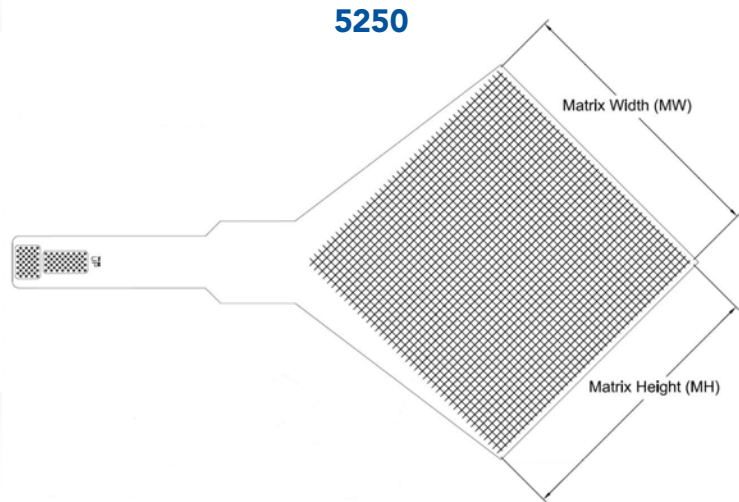
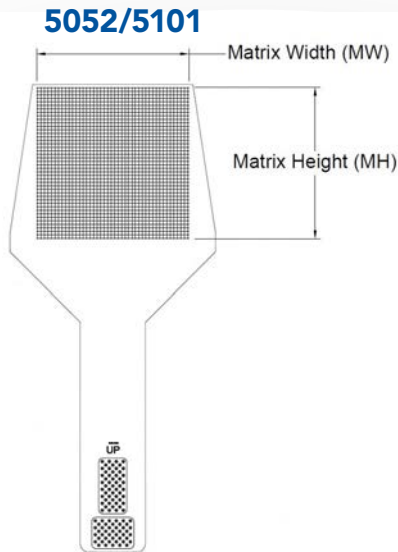
- Molds
- Gaskets
- Heat Sinks
- Sealing Bars
- Pinch Rollers & Nips



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 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!**