I-Scan® Product Selection Guide



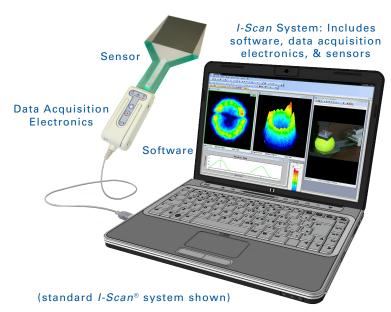
TABLE OF CONTENTS

Overview	3
I-Scan System Sensors	
Tekscan Data Acquisition Electronics	4-12
Configurations EVOLUTION® STANDARD USB. VERSATEK® HIGH SPEED USB. WIRELESS VERSATEK WIRELESS UNIT. DATALOGGER VERSATEK DATALOGGER UNIT. Comparison Chart. Selection Guide.	5 6-7 8-9 10-11
Software	13-16
Key Features	
System Add-ons	17-21
Triggering & Synchronizing with External Devices Analog Sensor Input to <i>Tekscan</i> Systems Data Reader Toolkit Pressure Mapping Software Development Kit (SD	18-19 20
Sensors	22-23
System PerformanceFunctionalitySpecifications	22
Equilibration Devices	24-25
Contact Information	26

I-SCAN SYSTEM

This selection guide is designed to help you find the product that best suits your application. It provides detailed information and specifications on the various system options, features, and configurations.

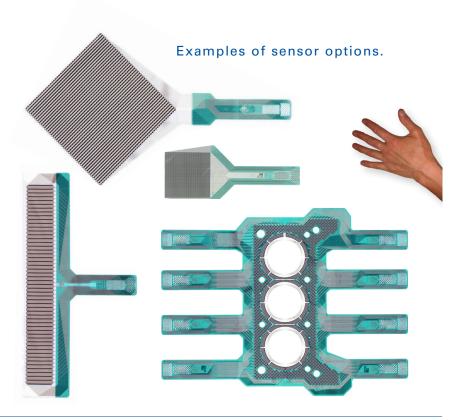
I-Scan® is a powerful tool that accurately measures and analyzes interface pressure between virtually any two surfaces, utilizing a thin and flexible sensor. The system is comprised of data acquisition electronics, sensors, and software. There are many different options for data acquisition electronics, standard and custom sensors, and software add-ons, which make the *I-Scan* system extremely versatile, creating endless possibilities for applications.



SENSORS

Over 200 flexible, thin film sensors are available in different sizes, shapes, resolutions, temperature ratings, and pressure ranges (up to 25,000 psi or 1,700 bar).

- High spatial resolution (up to 248 sensing elements/cm2 or 1,600 sensing elements/in2)
- Sensing area ranging from 3 mm x 3 mm (.12 in. x .12 in.) to up to 1,734 mm x 1,768 mm (68 in. x 69 in.)
- Optional high-temp sensors can withstand up to 200°C (392°F)
- Large high resolution sensors
 with multiple tabs require cross
 handle scanning. This requires
 VersaTek electronics which is
 capable of having multiple
 handles coordinated in scanning
 the sensing area.
- Fully customized sensors can be manufactured



TEKSCAN DATA ACQUISITION ELECTRONICS

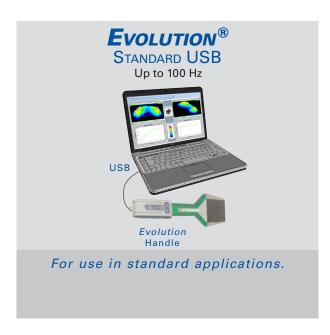
Tekscan's products function in both static and dynamic measurement environments. In order to obtain the pressure data from the sensor, data acquisition electronics scan the sensing elements within each sensor. The data is instantly relayed to the software on a PC via a USB cable. Sensors can be scanned at up to 1,600,000 sensing elements/second.

The 5051, a common *Tekscan* sensor with just under 2000 sensing elements has a maximum scanning speed of 100 Hz with all electronics.

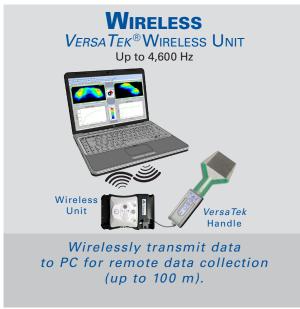
High speed sensors with 44 sensing elements can be fully scanned with VersaTek electronics at 20 kHz.

CONFIGURATIONS

To best suit your application, *I-Scan* offers different options for data acquisition electronics:







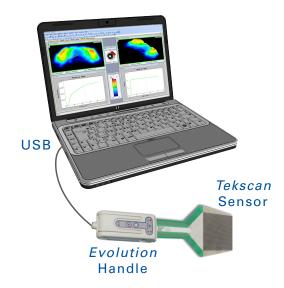


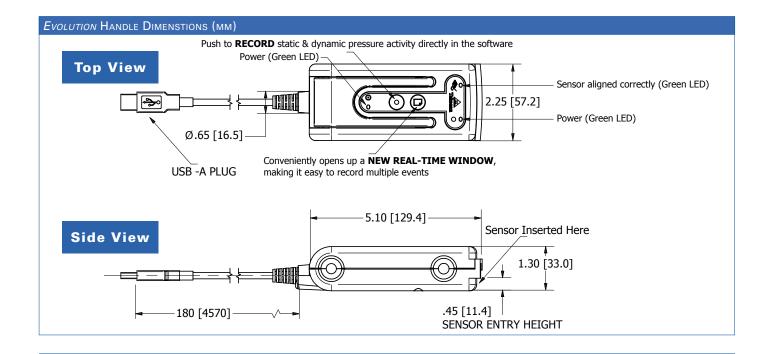
EVOLUTION® STANDARD USB

Used for standard applications, this system is lightweight and versatile. The *Evolution* scanning electronics consist of a handle that connects to a sensor and to the USB port of a PC. Multiple handles may be used simultaneously. Indicators on the handle show system status and allow some control of data collection.

Evolution Handle						
	150					
System Part #	IE1					
Physical Characteristics						
Housing Material	Polycarbonate/ABS blend (Beige)					
Size L x W x H	137.9 mm x 57.2 mm x 33.5 mm (5.43 in. x 2.25 in. x 1.32 in.)					
Connection Type	USB 2.0					
Weight	305 g (10.8 oz)					
Power Source	USB Powered, 200mA, 1W					
Standard Cable Length	4.57 m (15 ft)					
Operating Characteristi	cs					
Maximum Scanning Speed	Up to 100 Hz (speeds vary by sensor)					
Pulse-Per-Frame Synchronization	No					
Digital Pressure Resolution	8 Bit					
Communication to PC	USB 2.0, 480 Mbps					
Voltage: Current Consumption	200 mA, 1 W					
Sensitivity Adjustment	x 7 to 1/3 of Sensor Pressure Rating					
OPERATING CONDITIONS						
Temperature	-20°C to 35°C (-4°F to 95°F)					
Relative Humidity (%)	5-90 (non-condensing)					
System Components (Part #)						
Evolution Handle (EH-2), System Carrying Case, Sensor Carrying Case, System Manual						

- Handle powered directly from PC via USB cable
- Up to 100 Hz scanning speed (speed varies by sensor)





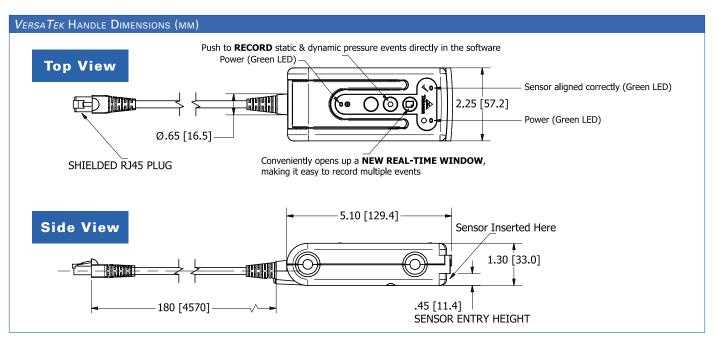
VERSATEK® HIGH SPEED USB

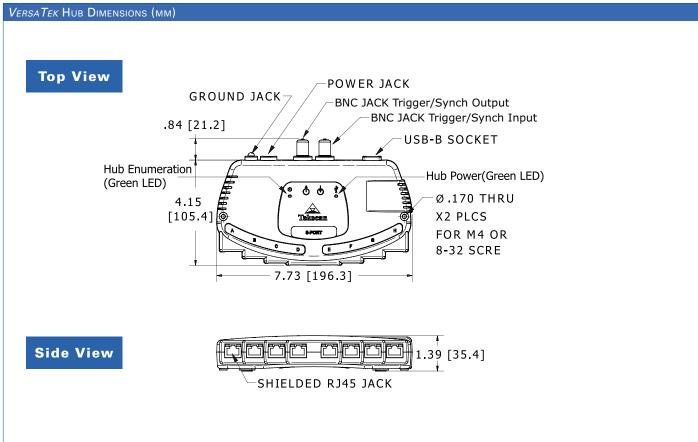
Used for larger sensors with multiple tabs or high speed applications. The *VersaTek* scanning electronics consist of a handle that connects to a sensor and to an 8-port hub, which then connects to the USB port of a PC. The hub drives and collects signals from up to 8 handles simultaneously.

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VersaTek Handle & 8-Port Hub	
System Part #	IVB1
Physical Characteristics	
Housing Material	Handle: Polycarbonate/ABS blend (Grey) Hub: Polyurethane [PUR] (Grey)
Connection Type	USB 2.0
Weight	Handle: 305 g (10.8 oz) Hub: 370 g (13.1 oz)
Power Source	Input: 100-240V 5A 50-60 Hz, 1.2A Output: 12V, 5A
Standard Cable Length	Handle to Hub: 4.57 m (15 ft) Hub to Host: 3 m (10 ft)
Maximum Cable Length	Handle to Hub: 30 m (100 ft) Hub to PC: 5 m (16.4 ft)
OPERATING CHARACTERISTICS	
Maximum Scanning Speed	Up to 20,000 Hz (speeds vary by sensor)
Handles Supported by Hub	8
Pulse-Per-Frame Synchronization	Yes
Digital Pressure Resolution	8 Bit
Communication to PC	USB 2.0, 480 Mbps
Sensitivity Adjustment	x 3 to 1/7 of Sensor Pressure Rating
OPERATING CONDITIONS	
Temperature	-10°C to 55°C (14°F to 131°F)
Relative Humidity (%)	0 to 90 (non condensing)
System Components (Part #)	
VersaTek Handle (VH-1), VersaTek 8-Port Hub (V8PH Case, Sensor Carrying Case, System Manual	-1), Power Supply (VPS-2), AC Cord (CAB-SJ120-8), 10 foot USB-A to USB-B Cable, System Carrying

- Up to 20,000 Hz scanning speed
- BNC in/out ports for trigger & synchronization
- Up to 8 handles simultaneously collecting data:
 - Multiple Sensors







WIRELESS VERSATEK WIRELESS UNIT

Ideal for applications where the object being measured is in motion or involves a hazardous area or materials. Scanning electronics consist of a VersaTek handle that connects to a sensor and to a wireless unit, which wirelessly transmits data to a PC for remote data collection (up to 100 m).

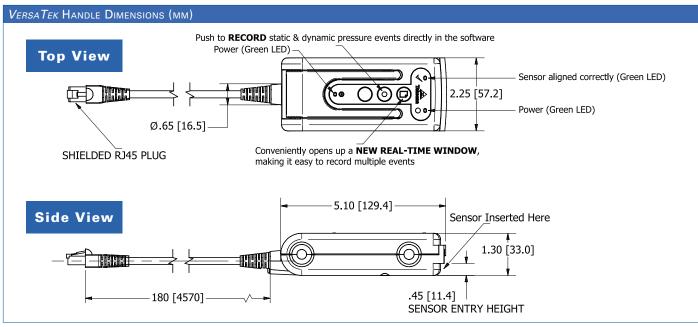
Wireless Unit	
Model #	IVW
Physical Characteristics	
Housing Material	Handle: Polycarbonate/ABS blend (Grey) Wireless Unit: Polycarbonate/ABS blend (Grey) Wireless unit mounting fixture: Polyurethane [PUR] (Black)
Connection Type	802.11B wireless
Weight	24 oz (665 g)
Power Source	Li-lon Battery: 8V / 2400 mA-Hr or Power supply: 100-240V, 5A
Standard Cable Length	Handle to Unit: 4.57 m (15 ft)
Maximum Cable Length	30 m (100 ft)
Operating Characteristics	
Maximum Scanning Speed	Up to 4,600 Hz (speeds vary by sensor)
Handles Supported by Hub	2
Pulse-Per-Frame Synchronization	Yes
Digital Pressure Resolution	8 Bit
Communication to PC	802.11B wireless via PC wireless card or provided USB to wireless adapter
Sensitivity Adjustment	x 3 to 1/7 of Sensor Pressure Rating
Battery Life	2 Hours of continuous operation
OPERATING CONDITIONS	
Temperature	-20 to 35° C (-4 to 95°F)
Relative Humidity (%)	5 to 90 (Non-Condensing)
System Components (Part #)	
	fixture, WiFi to USB adapter (VW-USW), Power Supply (VPS-1), AC Cord (CAB-SJ120-8), Li-lon battery or Power Supply (VPS-3), Cable Ferrites (VWD-A-LF), 6 foot USB-A to Mini-B Cable, System Carrying

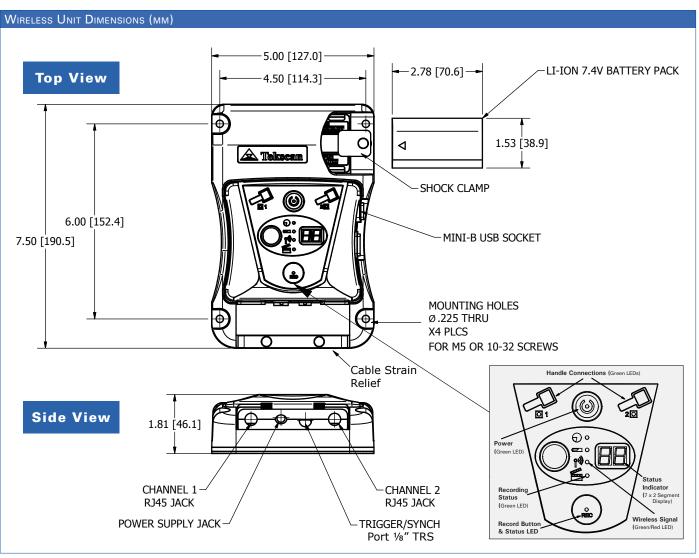
Wireless range of up to 100 meters

Case, Sensor Carrying Case, System Manual

- Real-time data and movie recording
- Wireless signal strength indication and automatic buffering if wireless unit moves out of range
- Datalogger capabilities







DATALOGGER VERSATEK DATALOGGER UNIT

For wireless use at higher speeds and in environments that are noisy (not "wireless friendly"). Ideal system for when recordings need to be made over an extended period of time or if the target needs to travel from the PC. The scanning electronics consist of a *VersaTek* handle that connects to a sensor and to a Datalogger Unit. The Datalogger Unit collects and stores data in its internal memory for upload to a PC at a later time.

Datalogger Unit	
Model #	IVD
Physical Characteristics	
Housing Material	Handle: Polycarbonate/ABS blend (Grey) Wireless Unit: Polycarbonate/ABS blend (Grey) Datalogger unit mounting fixture: Polyurethane [PUR] (Black)
Connection Type	8GB USB 2.0 Micro SD card
Weight	24 oz (665 g)
Power Source	Li-Ion Battery: 8V / 24A or Power Supply: 100-240 V, 5A
Standard Cable Length	Handle to Unit: 4.57 m (15 ft)
Maximum Cable Length	30 m (100 ft)
Operating Characteristics	
Maximum Scanning Speed	Up to 20,000 Hz (speeds vary by sensor)
Handles Supported by Hub	2
Pulse-Per-Frame Synchronization	Yes
Digital Pressure Resolution	8 Bit
Communication to PC	8GB Micro SD card (directly or though USB 2.0 cable connected to Datalogger unit)
Sensitivity Adjustment	x 3 to 1/7 of Sensor Pressure Rating
Battery Life	2 Hours of continuous operation
Operating Conditions	
Temperature	-20 to 35° C (-4 to 95°F)
Relative Humidity (%)	5 to 90 (Non-Condensing)
System Components (Part #)	

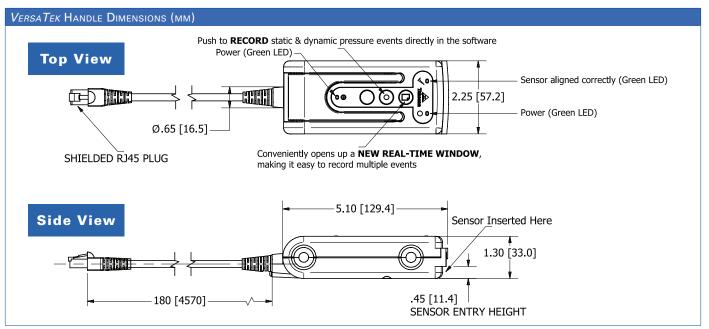
VersaTek Handle (VH-1), Datalogger Hub with mounting fixture, Formatted USB Memory Stick (VWD-A-MS), Power Supply (VPS-1), AC Cord (CAB-SJ120-8), Li-lon battery (VWD-A-BP), Battery Charger (VCH-1), Battery Charger Power Supply (VPS-3), Cable Ferrites (VWD-A-LF), 6 foot USB-A to Mini-B Cable, System

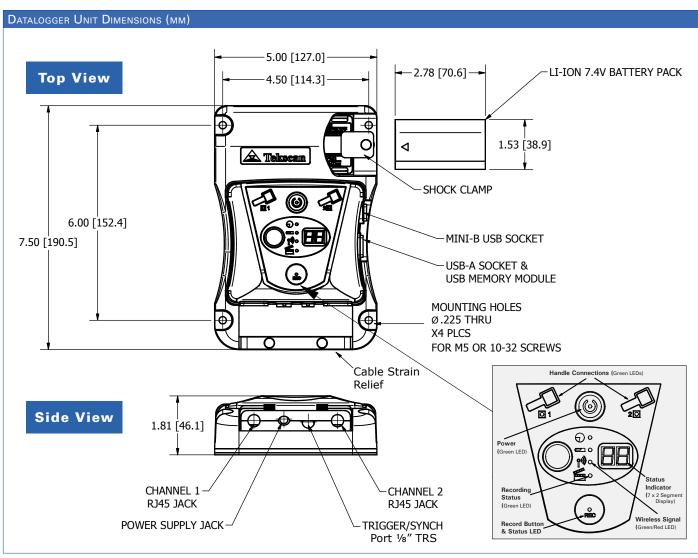
• Up to 20,000 Hz scanning speed

Carrying Case, Sensor Carrying Case, System Manual

Data is saved directly to the included 8 GB
Micro SD card
 Simultaneously record up to 2 handles
 Same unit also available with both
Wireless and Datalogger capabilities

Datalogger
Unit
VersaTek
Handle

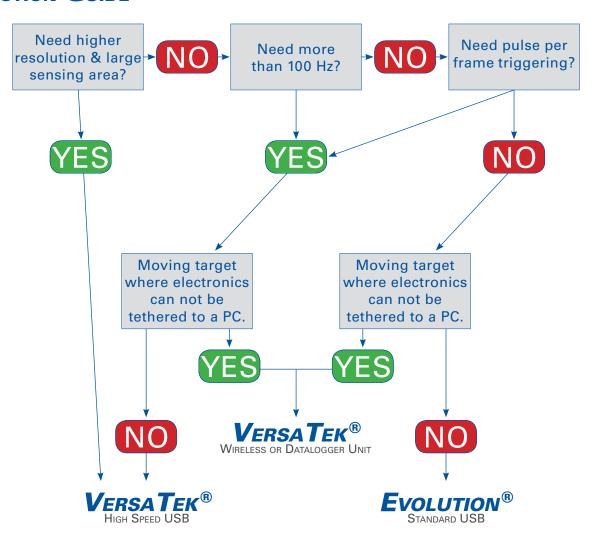




COMPARISON CHART

	Evolution (Standard USB)	<i>VersaTek</i> (High Speed USB)	Wireless (<i>VersaTek</i> Wireless Unit)	Datalogger (<i>VersaTek</i> Datalogger)
Data Acquisition Electronics	Evolution Handle	• VersaTek Handle • VersaTek Hub	• VersaTek Handle • Wireless Unit	 VersaTek Handle Datalogger Unit
Maximum Scanning Speed	100 Hz	20,000 Hz	4,600 Hz	20,000 Hz
Cross Handle Scanning	No	Up to 8	Up to 2	Up to 2
Pulse-Per-Frame Synchronization	Synchronization No in & out		in & out	in & out
Adjustable Sensitivity	x 7 to 1/3 of Sensor Pressure Rating	x 3 to 1/7 of Sensor x 3 to 1/7 of Sensor Pressure Rating Pressure Rating		x 3 to 1/7 of Sensor Pressure Rating
Power Source	USB Port of PC	SB Port of PC 100-240V Power Supply		Li-Ion Battery: 8V, 2.4A or Power Supply: 100-240V
Maximum Handle Cable Length	mum Handle Cable Length 5.0 m (16.4 ft) 30.48 i		30.48 m (100 ft)	30.48 m (100 ft)
Maximum Hub Cable Length	n/a	5.0 m (16.4 ft)	5.0 m (16.4 ft)	5.0 m (16.4 ft)

SELECTION GUIDE



SOFTWARE

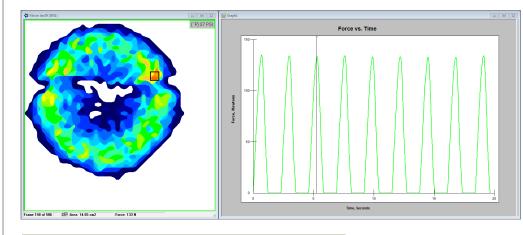
I-Scan's intuitive software displays pressure data in real time with the ability to record, save, and play back recordings (.FSX files) or export as a text (ASCII) file for use with other programs.

KEY FEATURES

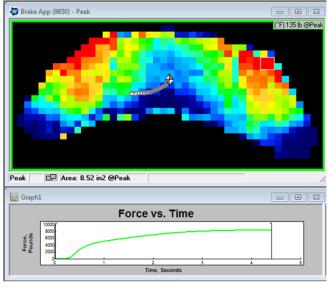
- · View 2D, 3D, and contour pressure images
- · Real-time views of sensor data
- Snapshots of pressure data
- · Record pressure data over time
- Play back pressure movies
- Graphical analysis of real time or stored data
- Pressure displayed in Engineering or Relative units

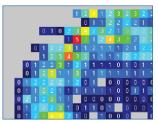
- Single & Multi-point calibration
- Single & Multi-point equilibration
- Peak pressure views
- ASCII export capability
- Save as AVI
- Scan rate of up to 20,000 Hz

GRAPHIC & DATA ANALYSIS



Force vs. time graph – the cursor at 3 seconds correlates to the pressure output on the left. Users can click any point in time along the x-axis to view the resulting pressure output image.

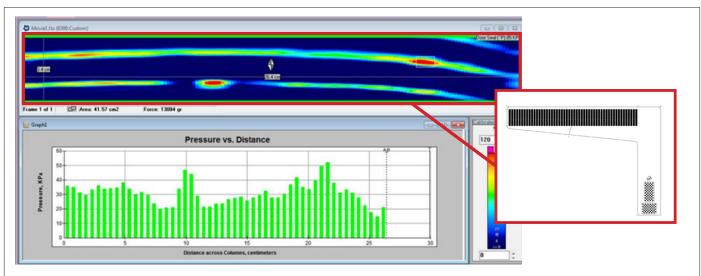




Data available from each frame:

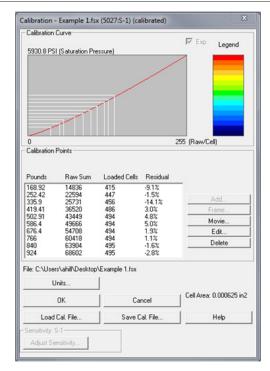
- Total Force
- Center of Force location
- Peak Pressure
- Pressure distribution (i.e. force on each sensing element)

SENSOR MAPS



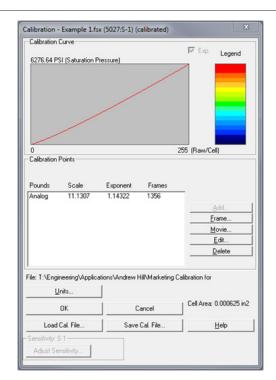
Each sensor requires its own unique MAP driver file for the software to function properly. By utilizing sensor MAPs, the software is able to provide an accurate depiction of each unique sensor layout. The sensor MAP controls the shape of the pressure image window in the software, which corresponds to the shape and dimensions of the sensing area on the sensor.

CALIBRATION



10 point calibration window

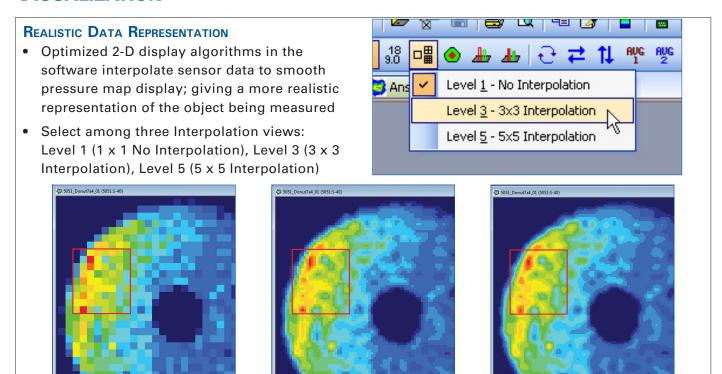
With a controlled load, up to 10 calibration points can be set in the software to apply units to the measurement values



Movie calibration window

When utilizing the analog input capabilities of Tekscan software, a movie can automatically be calibrated using a load cell connected to the system

VISUALIZATION



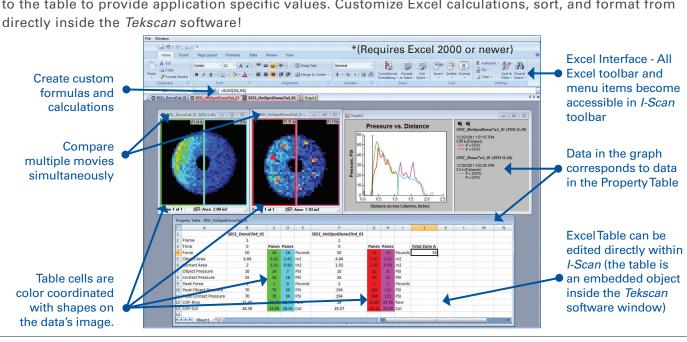
PROPERTY TABLE

1 x 1 No Interpolation

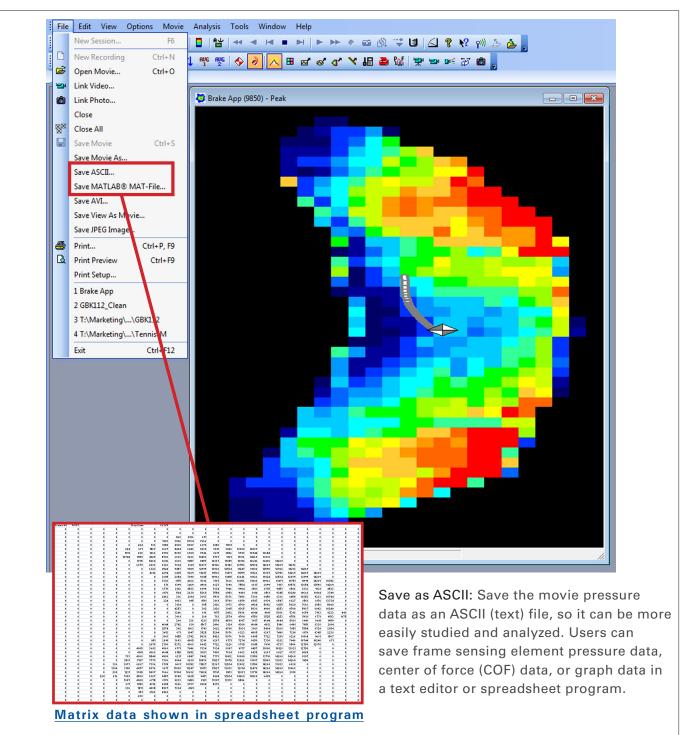
I-Scan includes the new Property Table feature. Property Table makes it easier to access sensor data, by allowing you to view data as an integrated Microsoft Excel table*. Data can be viewed and graphed within a single Excel spreadsheet from within the *Tekscan* software. Formulas can be added to the table to provide application specific values. Customize Excel calculations, sort, and format from directly inside the *Tekscan* software!

3 x 3 Interpolation

5 x 5 Interpolation



EXPORT FUNCTIONS



Data Analysis Add-ons:

- The "Save MATLAB" feature facilitates saving *Tekscan* recording data into a MATLAB file (.MAT format) for easy analysis
- The Data Reader Toolkit is an API that allows users to analyze native *Tekscan* .FSX files in 3rd party analysis applications.

See Software Add-ons for more information.

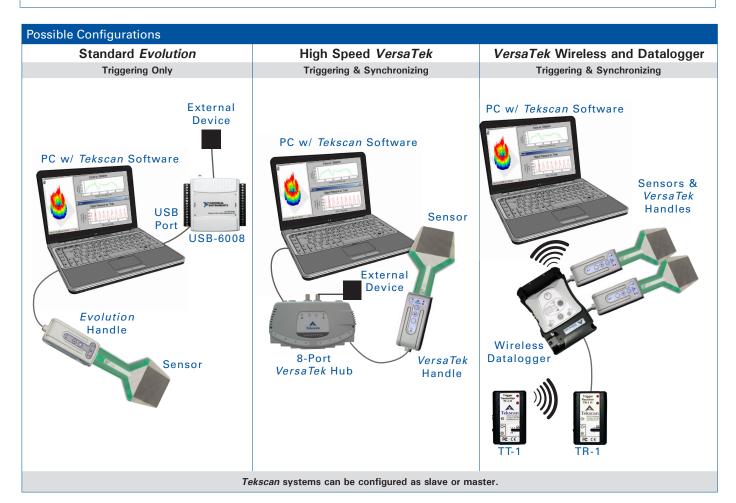
System Add-ons

TRIGGERING & SYNCHRONIZING WITH EXTERNAL DEVICES

The External Trigger Synch software add-on feature enables users to configure a variety of system triggering capabilities of the *Tekscan* scanning electronics. Using *Tekscan* software, systems can be configured as a slave (to respond to an external signal) or as a master (to send a signal to an external device).

APPLICATIONS

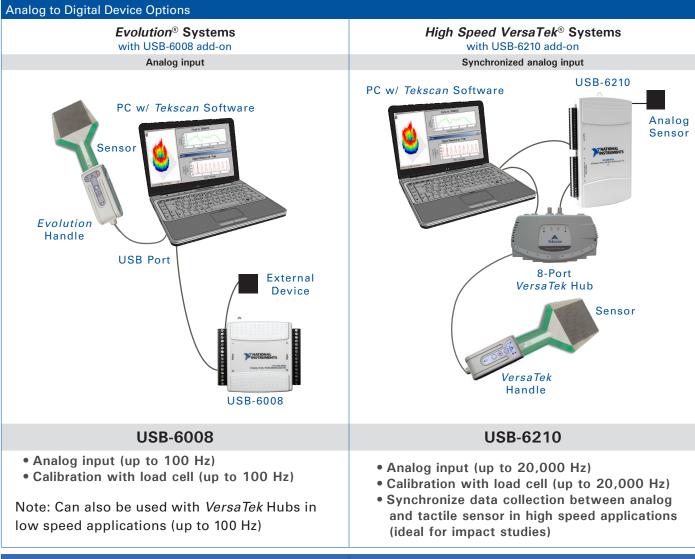
- Synchronizing Tekscan data with video recordings
- Triggering a Tekscan recording via a signal from an external device
- Triggering and synchronizing a Tekscan system with a third-party product, such as motion capture or an EMG system

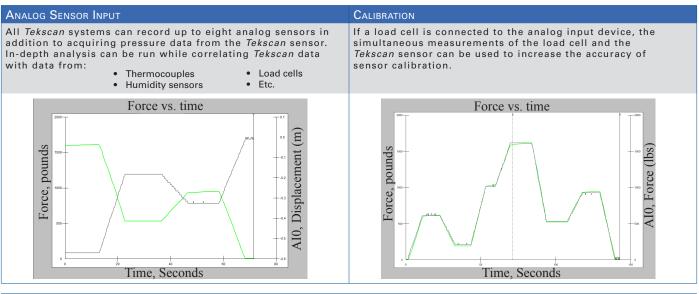


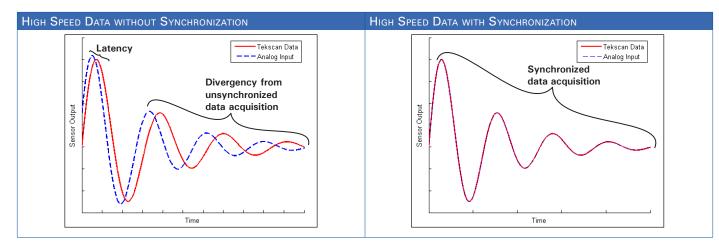
REQUIREMENTS Trigger Modes • For trigger input: Triggering device providing a contact closure signal Pulse-per-Synchronization • For trigger output & synchronization: Frame (VersaTek only) Connection is 3.3V CMOS / 5 VTTL logic level compatible Rising Edge • Trigger Synch software is an add-on for Triggering the following Tekscan systems: I-Scan Falling Edge or TireScan

Analog Sensor Input to Tekscan Systems

Two analog to digital device options are available to integrate analog signals with *Tekscan* systems via USB:



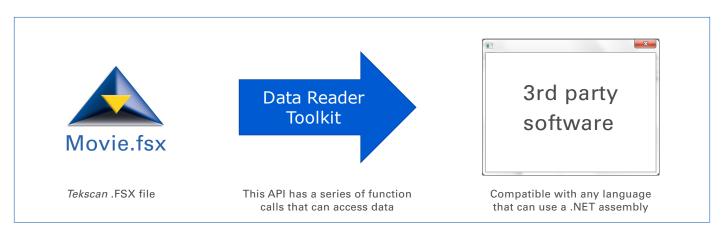


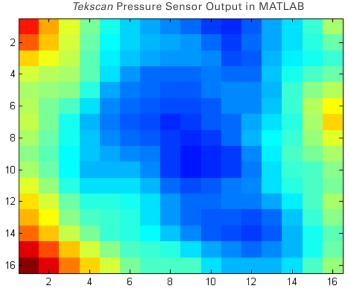


Analog Input Module Specs						
Model #	USB-6008	USB-6210				
GENERAL						
USB Power	Bus-Powered	Bus-Powered				
Measurement Type	Voltage	Voltage				
Isolation Type	None	None				
Іприт/Оитрит						
Analog Channels	8*	8				
Resolution	12-bits	16-bits				
Sample Rate	Same as <i>Tekscan</i> Sensor (not synch, 100 Hz max)	Same as <i>Tekscan</i> Sensor (synch, 20 kHz max)				
Max Voltage	10 V	10 V				
Voltage Input Range	-10 V to 10 V	-10 V to 10 V				
Synchronize Port Input	N/A	1				
Physical Specifications						
Length	8.51 cm (3.35 in.)	16.9 cm (6.65 in.)				
Width	8.18 cm (3.22 in.)	9.4 cm (3.70 in.)				
Height	2.31 cm (0.91 in.)	3.1 cm (1.20 in.)				
I/O Connector	ScrewTerminals	ScrewTerminals				
Cable compatibility	16 to 28 AWG	16 to 28 AWG				
Weight	84 g (3 oz)	206 g (7.02 oz)				
Operating Temperature	0° to 55°C (32° to 131°F)	0° to 45°C (32° to 113°F)				
Storage Temperature	-40° to 85°C (-40° to 185°F)	-20° to 70°C (-4° to 158°F)				
Humidity	5 to 90% RH, non-condensing	10 to 90% RH, non-condensing				
System Requirements						
Software	I-Scan V7.5 or Newer	I-Scan V7.6 or Newer				
Operating System	Windows XP, Vista, 7 & 8, 32 or 64-bit	Windows XP, Vista, 7 & 8, 32 or 64-bit				
Software	Trigger for <i>Evolution</i> : Yes (Trigger Add-On) Analog Input: No additional software needed.	Analog Input: Yes (Trigger Add-On)				
*Analog channel used for triggering can also collect analog data. Voltage threshold for triggering is set during configuration.						

DATA READER TOOLKIT (DRT)

The Data Reader Toolkit is an Application Programming Interface (API) that is implemented into data analysis applications, including C#, MATLAB, LabView, and VB to open *Tekscan* .FSX files. To streamline implementation, the Data Reader Toolkit comes with sample code for functions. DLL's can be run in Windows XP or newer and are compatible with any language that can use .NET assemblies. This is ideal for users who typically collect large amounts of data, as there is no need to store data in multiple file formats. Users can easily import large amounts of *Tekscan* pressure data and script a custom analysis to analyze the data more efficiently.





KEY FEATURES

- Customize data output and display
- · Maintain data in .FSX format
- Customize UI (streamline analysis procedures)
- Run post processing analysis of Tekscan data directly in to preferred analysis software

BENEFITS

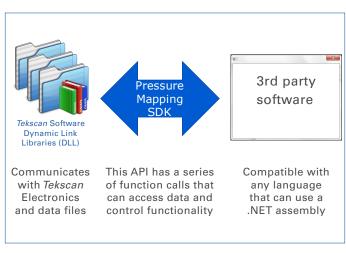
- Efficient study of large volume of data files can be scripted into analysis software
- More productivity with simple User Interface customized for repeated procedures
- Streamline analysis of data without having to save multiple file formats
 - Easier to organize and less storage space required
- Create automated analysis for customized applications

PRESSURE MAPPING SOFTWARE DEVELOPMENT KIT (SDK)

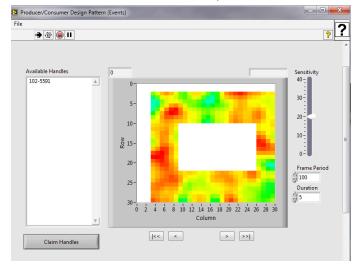
The Pressure Mapping Software Development Kit (SDK) is an Application Programming Interface (API), which allows users to access the functionality of *Tekscan's* pressure mapping software giving a developer the ability to program an application that controls and interfaces with *Tekscan* data acquisition electronics. *Tekscan's* Pressure Mapping SDK has a set of functions that call on the Dynamic Link Libraries (DLL) which control data acquisition and analysis. DLLs can be run in Windows XP or newer and are compatible with any language that can use .NET assemblies.

For efficiency, the Pressure Mapping SDK provides sample code for functions in 3rd party applications, including C#, MATLAB, LabVIEW, and VB, to:

- Get Data Communicate with Tekscan data acquisition electronics
- Record Data Control acquisition parameters for saving data
- Read Data Read data from previously saved files



Tekscan Pressure Sensor output in LabVIEW



IDEAL FOR MONITORING OR CONDUCTING REPEATED TESTS:

- Manufacturing (Quality Control, Test, Machine Setup)
- OEM Product Integration
- Laboratory Research

Key Features

- Customize data output and display
- Customize UI (streamline procedures for operators)
- Integrate pressure mapping with machine functionality
- Standardize measurement devices over multiple facilities
- Collect Tekscan data directly into preferred analysis software

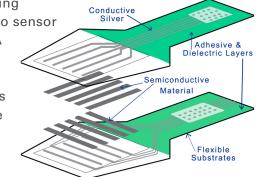
BENEFITS

- Seamless 3rd party software integration with a pressure mapping sensor
- Increase productivity with simple UI customized for repeated procedures
- Reduce downtime with early fault detection with real-time analysis
- Improve quality with fast, accurate measurement and machine setup
- Analyze data without having to save multiple file formats
- Create automated acquisition and analysis for custom applications

SENSORS

Tekscan matrix-based sensors consist of two thin, flexible polyester sheets that have electrical conductors printed on them in stripe patterns. Typically the inside surface of one substrate has a row pattern while the inner surface of the other has columns. The spacing

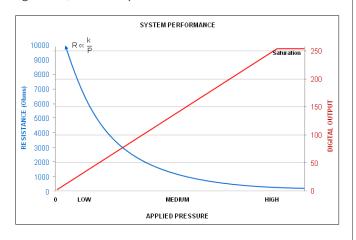
between the stripe patterns (rows and columns) varies according to sensor application and can be as small as 0.6 mm or as large as 17 mm. A patented, semi-conductive coating (or ink) is applied over these conductors. When the two polyester sheets are placed on top of each other, a grid pattern is formed. The intersections of the stripes form individual sensing elements. When a force is applied to these sensing elements the electrical resistance in the ink changes in inverse proportion to the applied normal force. Sensors are less than 0.1 mm thick and typically have 2,000 sensing elements.



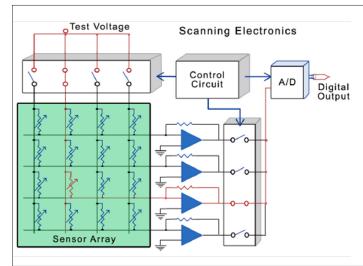
System Performance

Typical system performance is shown below. Resistance of the sensing elements varies inversely with applied load. The system linearizes sensor output into digital counts, or "raw" values on a scale from 0-255. Calibration converts raw values into engineering units, such as psi or kPa.

Sensor Properties	Standard		
Linearity	<± 3%		
Repeatability	<± 3.5%		
Hysteresis	< 4.5% of full scale		
Drift per log time	< 5%		
Lag Time	5 µsec		
Operating Temperature	-40° to 60°C (-40° to 140°F)		
Thinness	0.1 mm (0.004 in.)		
Sensing Element Density	Up to 248 per sq. cm (1,600 per sq. in.) Pitch as fine as 0.6 mm (0.025 in.)		
Pressure Range	Up to 207 MPa (30,000 psi)		



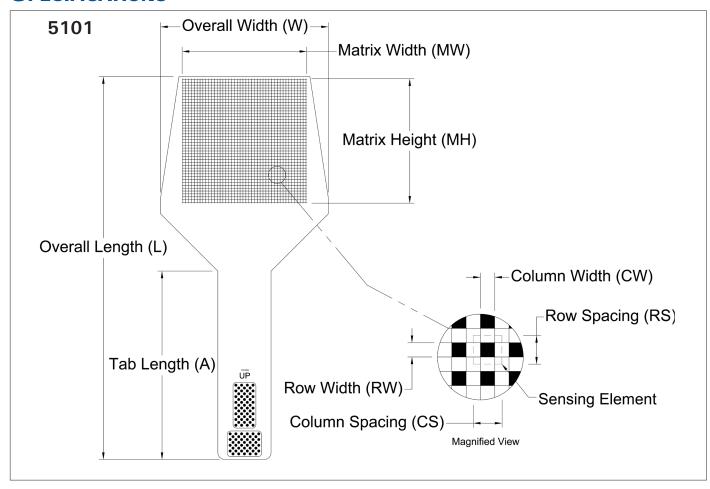
FUNCTIONALITY



Sophisticated microprocessor based circuitry controls scanning sequence and frequency, adjusts sensitivity, and optimizes the performance of matrix-based sensors. The image shows the sensing system and a simplified electrical schematic of the 8 bit electronics (255 levels) that scan the intersecting points of the sensor's rows and columns, measuring the resistance at each sensing element. The sensing elements are read in the presence of multiple contacts while simultaneously limiting the possible current flow through the device. Each sensing element is represented by a variable resistor whose value is highest when no force is applied to it.

Here are the specifications for *I-Scan's* most common sensor (model 5101). The same detailed specifications are published for all sensors on our website. For more information and a full listing of *Tekscan* sensors and specifications, visit tekscan.com/pressureSensors. Please note that a MAP driver is required for every sensor model used with the *I-Scan* system. The pressure rating of a sensor can be adjusted using the Sensitivity Adjustment feature of *Tekscan* software. The adjustment range varies by electronics (see System Comparison page). For example, *Evolution* electronics are listed as: x 7 to 1/3 of Sensor Pressure Rating. Therefore, a sensor with a Pressure Rating of 100 PSI can be set to measure 700 PSI max (to cover a higher pressure range) or 33 PSI max (for higher pressure resolution). Any pressure applied to the sensing elements above the max pressure setting will display as a saturated point because this exceeds the specified sensing range.

SPECIFICATIONS



Overall Length	Overall Width W	Tab Length A	Matrix Width MW	Matrix Height MH	Columns Pitch			Rows Pitch		Total No. of Sensing	Resolution		
_					CW	CS	Qty.	RW	RS	Qty.	Elements	Elements	
13.39 (in.)	5.86 (in.)	6.59 (in.)	4.4 (in.)	4.4 (in.)	0.05 (in.)	0.1 (in.)	44	0.05 (in.)	0.1 (in.)	44	1936	100 (sensing elements per in.2)	
340.1 (mm)	148.8 (mm)	167.4 (mm)	111.8 (mm)	111.8 (mm)	1.3 (mm)	2.5 (mm)	44	1.3 (mm)	2.5 (mm)	44	1936	15.5 (sensing elements per cm2)	

Pressure Ratings								
psi	6	10	50	150	350	500	3,000	5,000
kPa	41	69	345	1,034	2,413	3,448	20,685	34,475

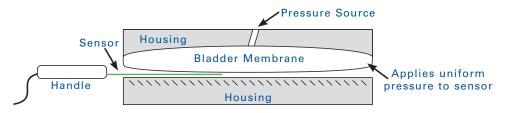
EQUILIBRATION DEVICES

Equilibration devices are recommended for improving accuracy and lifespan of *Tekscan* systems. During equilibration, the sensor is inserted between a flat backing plate and an air filled bladder, which is inflated in order to apply a uniform pressure to the active area of the sensor. The equilibration process allows the software to compensate for any variation or uneven output across individual sensing elements caused by manufacturing or repeated use of the sensor. Equilibration devices are useful to perform quality assurance checks on the sensor and confirm uniform output by the sensor.

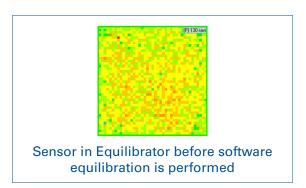


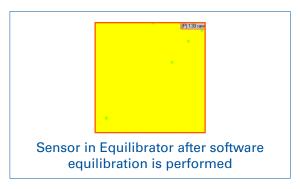
WHY EQUILIBRATION?

Over time and through repeated loading, individual force sensing elements will eventually start to vary somewhat in sensitivity. The equilibrator applies a uniform pressure across the face of the



sensor, allowing the software to easily see and quantify these variations. A digital compensation factor is automatically created and applied to each individual sensing element. This normalizes all of the sensing elements on the sheet, improving the accuracy and extending the lifespan of the sensor.





Equilibration devices are available for various pressure ranges. Some units require external compressed air to generate pressure in the bladder while others have self contained sources. See Pressure Source for desired equilibrator in tables below.

Low Pressure: 0-5 psi (0-34.5 kPa)						
Model	Active Area	Pressure Source				
PB5A	114 mm x 318 mm (4.5 in. x 12.5 in.)	Pneumatic (self contained w/ weights)				
PB5C	445 mm x 495 mm (17.5 in. x 19.5 in.)	Pneumatic (self contained w/ weights)				
	0-15 psi (0-103	kPa)				
PB15A	445 mm x 495 mm (17.5 in. x 19.5 in.)	Pneumatic (compressed air)				
PB15C	114 mm x 311 mm (4.5 in. x 12.3 in.)	Pneumatic (compressed air)				

Medium Pressure: 0-100 psi (0-689 kPa)						
Model	Active Area	Pressure Source				
PB100C	330 mm x 495 mm (13.0 in. x 19.5 in.)	Pneumatic (compressed air)				
PB100E	127 mm x 311 mm (5.0 in. x 12.3 in.)	Pneumatic (compressed air)				
PB100F	572 mm x 521 mm (22.5 in. x 20.5 in.)	Pneumatic (compressed air)				
PB100H	445 mm x 495 mm (17.5 in. x 19.5 in.)	Pneumatic (compressed air)				

High Pressure: 0-500 psi (0-3447 kPa)							
Model	ACTIVE AREA	Pressure Source					
PB500C	143 mm x 152 mm (5.625 in. x 6.0 in.)	Hydraulic					

		Low Pi	ressure			IV	ledium Pressu	re		High Pressure
Equilibrator	PB5A	PB5C	PB15A	PB15C	PB100C	PB100E	PB100F-1	PB100H	PB100N	PB500C
SENSOR										
MODEL										
3000	S	х	х	х	х	S	х	х	х	
3001	S	х	х	х	x	S	х	х	x	
3150		S	х				х	х	х	
4000	S	х	х	х	x	S	х	х	х	S
4010N	S	х	х	х	x	S	х	х	х	S
4011	S	х	х	х	х	S	х	х	х	S
4041	S	x	х	x	x	S	х	x	х	S
4201	S	х	х	х	х	S	х	х	х	S
4205	S	х	х	х	x	S	х	x	x	S
4255N	S	х	х		S		х	x	х	S
4256	S	х	x		S		х	x	x	S
4400	S	х	х	х	×	S	х	х	х	S
4402	S	x	x	x	×	S	x	x	x	S
5026	S	x	x	x	×	S	x	x	×	S
5027	S	x	×	×	×	S	×	×	×	S
5033	S	x	x	x	x	S	x	x	x	S
5040	S	×	×	×	×	S	×	×	×	S
5040N	S	×	×	×	×	S	×	×	×	S
5040N 5051	S	×	×	S	X	S	×	×	×	S
5076	S	×	×	×	×	S	×	×	×	S
5101	3	S	×		S	3	×	×	×	S
5150N		S	×		S		×	×		3
5150N 5151		S			S	 			×	
5151 5210N		X	x S		S		x x	x x	x x	-
5210N 5250			S		S					
		x			S S		X	x	X	
5260		S	х		3		х	x	X	
5270		S	X				х	S	X	
5315		S	х		-		х	S	х	
5320		S	х		S		X	х	х	
5330		_					S		x	
5350		S	х				X	S	х	
5350N		S	х				S		X	
5400N		_			_				S	
5501		S	х		S		х	х	х	
5510		_	S		S		х	х	х	
5511		S	х		S		х	х	х	
5515		S	х		S		х	х	х	
5526		S	х		S		х	х	Х	
5555		х	S		S		х	х	х	
5570	S	х	Х	х	х	S	х	х	х	
5620N		х	х		S		х	х	х	
5630N	S	х	х	х	х	S	х	х	х	
5800	S	х	х	x	x	S	х	x	х	S
6010N		S	х				х	S	х	
6077	S	х	х	x	x	S	х	x	х	S
6220	S	х	х	х	x	S	х	х	х	S
6230	S	х	х	x	x	S	х	x	х	S
6300	S	х	х	х	S				х	
6501					S					S
6900	S	х	х	х	х	S	х	х	х	S
6911	S	х	x	x	х	S	х	х	x	S
7101							S		x	
7200N									S	
7501	S	х	х	х	х	S	х	х	x	S
8001		S	х		S		х	х	х	
8100	S	х	х	х	х	S	х	х	х	S
8110	S	х	х	х	х	S	х	х	х	
8150		S	х		S		х	x	х	
8155							х		S	
9500	S	х	х	х	х	S	х	х	х	S
9550	S	х	х	х	х	S	х	х	x	S
9801	S	х	х	х	×	S	х	х	x	
9830		S	х		S		х	х	х	
9850	S	х	х	х	S		х	x	x	S
9851	S	x	x	×	S		x	x	×	
9855N	S	x	x	x	x	S	x	x	x	S
9856N	S	x	x	x	x	S	x	x	x	S
9857N	S	x	x	x	s	i -	x	x	x	S
	-					1				

S – Standard Equilibrator for this sensor

 \boldsymbol{X} – Other Equilibrators that are compatible with this sensor

CONTACT INFORMATION

Our engineers have extensive application knowledge and experience. We are readily available to handle your application needs or answer any questions.

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