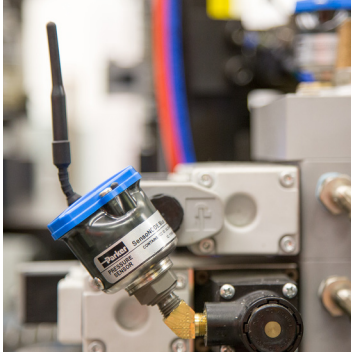

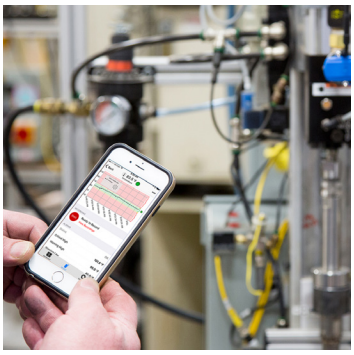

Condition Monitoring for Predictive Maintenance
SensoNODE™ Blue and SCOUT™ Mobile

Sensors, Software, and Accessories

Catalog 3864 USA | November 2016

ENGINEERING YOUR SUCCESS.

Quick Coupling Division Locations

Minneapolis, MN

Grantsburg, WI

Chetek, WI

Union City, PA

Sunnyvale, CA

⚠ WARNING

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• This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

• The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

• To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "Offer of Sale."

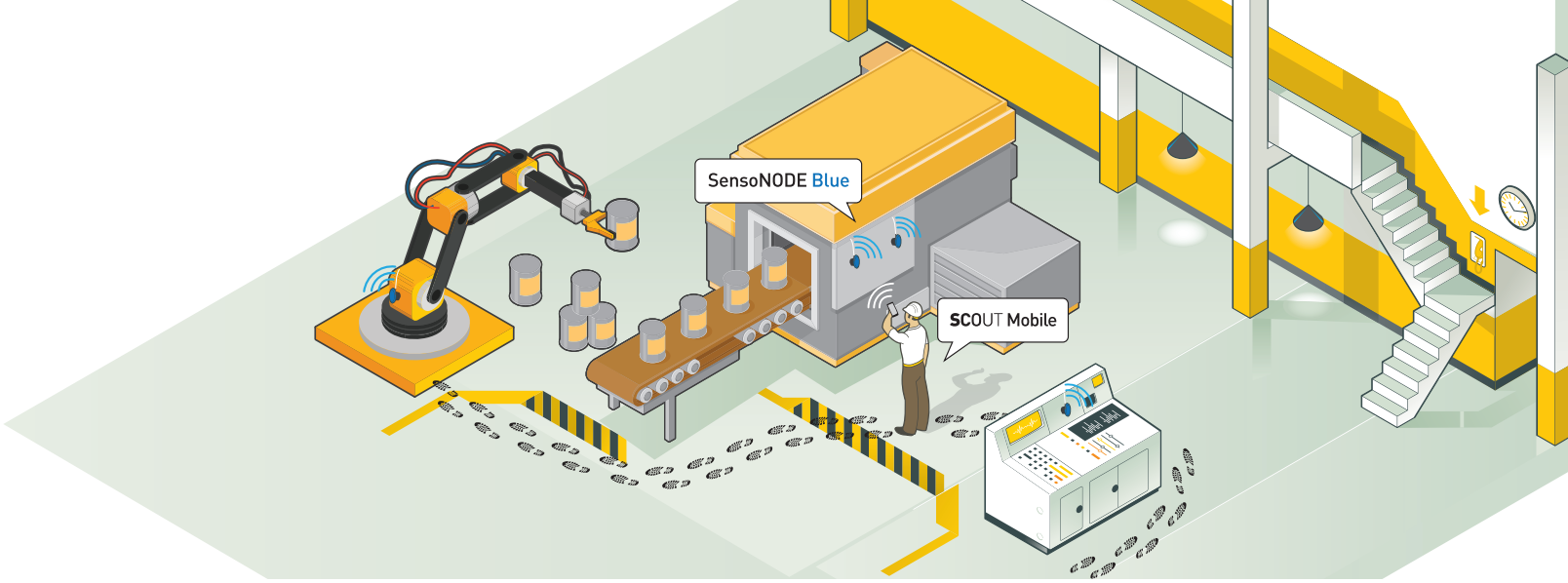
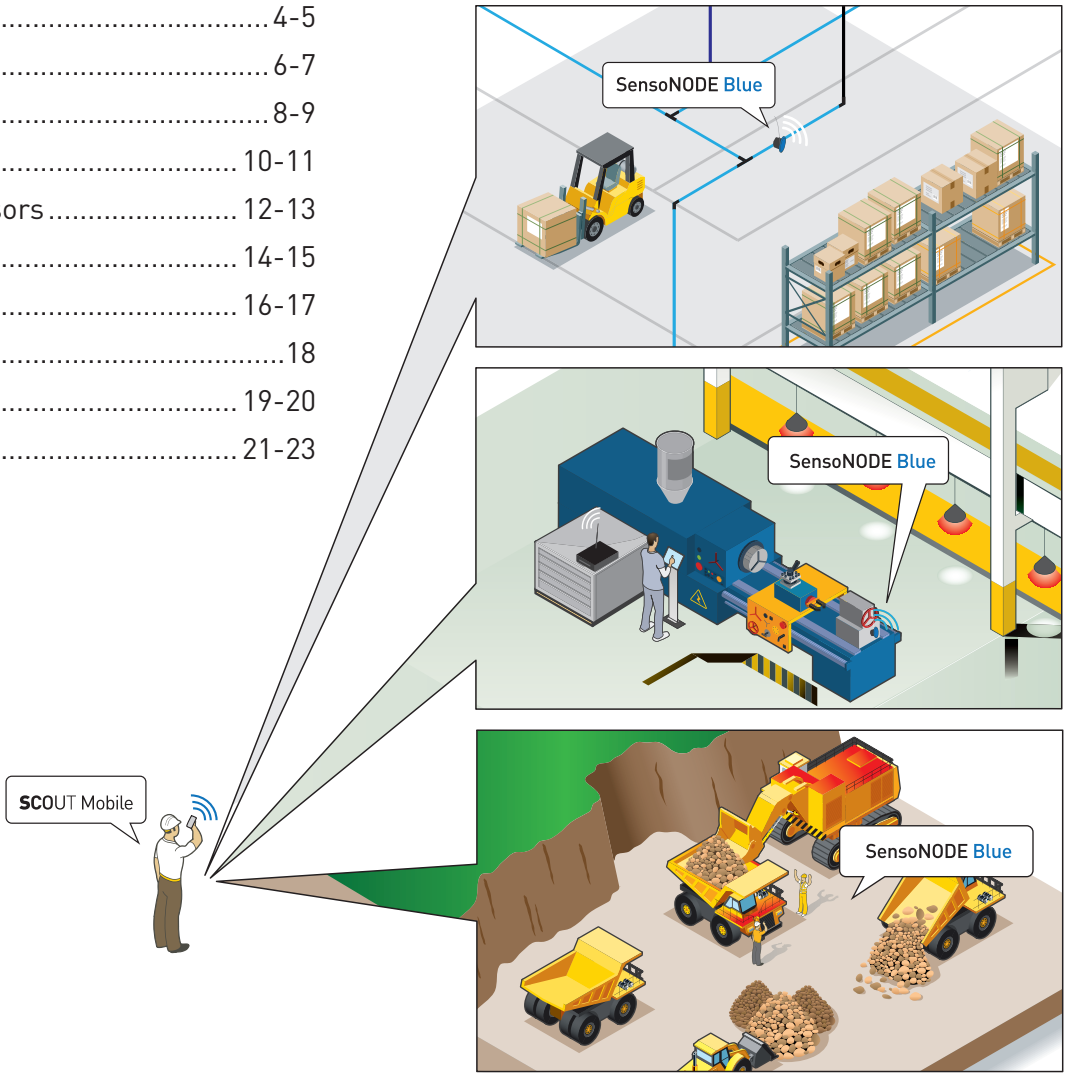


Table of Contents



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Condition Monitoring for Predictive Maintenance

The Industrial Internet of Things (IIoT) is changing the way manufacturing works, and your company can set the pace. As global competitiveness drives companies to find new ways to improve efficiency and product quality, not reviewing your processes and plants for opportunities with IIoT leaves your company standing still while others move forward.

Traditionally, improving efficiency means monitoring certain pieces of equipment or processes one at a time and keeping track of their conditions. This can be an inaccurate, labor-intensive process that takes up valuable man-hours and creates potentially dangerous situations for workers...in short; it costs companies time and money.

Parker's approach creates new possibilities with IIoT-enabled assets, delivering predictive analytics that drive optimal tactical, operational, and strategic decisions, leading to maximum uptime. Through wireless connectivity, you have access to both real-time and historical data for a comprehensive picture of their system's performance. Tracking consistent, accurate analytics allows for:

- Process improvement
- Process control
- Labor efficiency
- Flexibility of operation
- Improved quality
- Reduced maintenance
- Reduced inventory
- Process automation

Condition monitoring helps companies move products to market faster, and grow their business in ways they never thought possible. Through wireless connectivity, companies can respond to alerts that require immediate action to keep operations running smoothly, monitor their processes and fine-tune them for optimal throughput and product quality.

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SensoNODE™ Blue Sensors & SCOUT™ Mobile Software

Parker's SensoNODE Blue Sensors and SCOUT Mobile software deliver an IIoT solution that provides advanced condition monitoring for predictive maintenance across multiple applications and industries. The SensoNODE Bluetooth-powered sensors catch performance fluctuations and transmit them to SCOUT software, which records the data in both real-time and historic trends.

By monitoring assets and tracking data, users can employ predictive maintenance routines that allow them to address even the smallest issue before it snowballs into a serious problem. This allows users to:

- Identify issues before they escalate
- Reduce downtime
- Decrease maintenance costs
- Avoid dangerous situations
- Improve labor efficiency
- Record better analytics for better decision-making

SensoNODE Blue is Parker's series of Bluetooth-powered sensors. Compact, energy-efficient, and wireless, they are designed to provide simple and useful solutions for diagnostic and condition monitoring applications with mobile devices. SensoNODE monitors assets for changes in asset measurements to help predict problems and prevent downtime.

Why Blue?

- More accurate measurements
- Easy installation into existing machine ports
- Remote access to machines and processes
- Wireless installation removes challenges of wired systems
- No power supply needed
- Ultra-low battery consumption for up to 5 years of battery life
- Sealed sensor housing ideal for harsh environments
- Easy wireless connection process
- Compact, lightweight design
- LED indicators aids in identifying sensor status

SCOUT **Mobile** software allows users to connect their mobile devices to the network and receive the diagnostic data and analytics transmitted by SensoNODE sensors. SCOUT Mobile compiles the data and presents it in a way that makes sense to a user's operation, allowing them to track data in real-time and historic trends, and receive user-defined alerts for unexpected condition changes that may damage assets. Mapping and dashboard functions allow you to customize visualization of your data.

Why SCOUT**?**

- Accurate measurements delivered to your mobile device
- Familiar, easy-to-use interface
- Customizable dashboards
- Mapping Function
- Set your own alarm thresholds of measurements (min/max)
- Alerted when thresholds are exceeded
- Name sensors so they are easily identifiable
- Easy-to-understand trend charts
- Multiple users can access data from their mobile device
- Export data to analyze and share

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Features:

- Available in a variety of pressure ranges from -14.5 psi to 8700 psi.
- User-definable measurement units (psi/bar) for convenient and familiar data readings.
- Port options: Male NPT or SAE thread and EMA or PD quick couplers for fast and easy connecting.
- Corrosion resistant materials for challenging environments.
- Sensor also provides temperature values.
- User selectable measurement and broadcast intervals. Refer to SCOUT Mobile for more information about capabilities and modalities.

Sensor Technical Data

						
Housing Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Port	1/4" Male NPT	1/4" Male NPT	-4 SAE	-4 SAE	-4 SAE	-4 SAE
Wetted Parts Material	17-4 Stainless	17-4 Stainless	17-4 Stainless and Nitrile	17-4 Stainless and Nitrile	17-4 Stainless and Nitrile	17-4 Stainless and Nitrile
Measurement Range (pressure)	-14.5 to 14.5 psi [-1 to 1 bar]	0-150 psi [10 bar]	0-1500 psi [100 bar]	0-3625 psi [250 bar]	0-5800 psi [400 bar]	0-8700 psi [600 bar]
Max. Overload Pressure	29 psi	225 psi	2250 psi	5440 psi	8700 psi	13,050 psi
Burst Pressure	3x	4x	4x	4x	4x	4x
Accuracy (at 77°F/ 25°C)	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Resolution	.01 psi	.1 psi	1 psi	1 psi	1 psi	1 psi
Measurement and Broadcast Interval	User Selectable	User Selectable	User Selectable	User Selectable	User Selectable	User Selectable
Response Time (min)	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec
Ambient Temperature (battery limited)	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]
Fluid Media Temperature Range	-40°F to 185°F [-40°C to 85°C]	-40°F to 185°F [-40°C to 85°C]	-40°F to 185°F [-40°C to 85°C]	-40°F to 185°F [-40°C to 85°C]	-40°F to 185°F [-40°C to 85°C]	-40°F to 185°F [-40°C to 85°C]
Full Range Life Cycles	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million
Certifications	FCC, IC, CE	FCC, IC, CE	FCC, IC, CE	FCC, IC, CE	FCC, IC, CE	FCC, IC, CE
Battery (Panasonic is recommended brand)	CR123A	CR123A	CR123A	CR123A	CR123A	CR123A
IP Rating	IP65	IP65	IP65	IP65	IP65	IP65

Note: Consult QCD for other port options, pressure ratings, and port seal materials.

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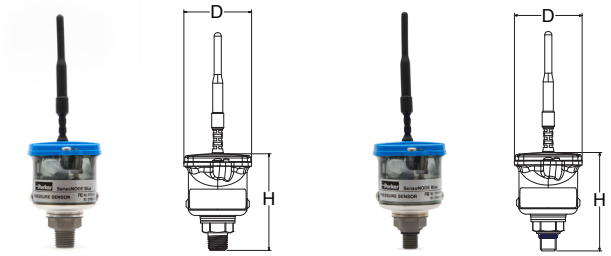
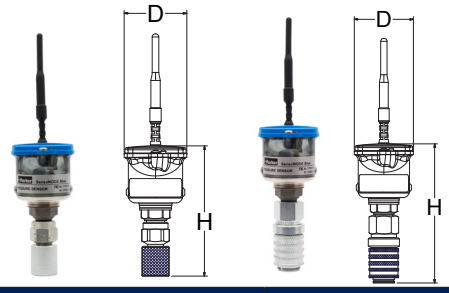
Pressure Sensors



Part Number	Pressure Rating psi [bar]	Port	D	H
SNPT2-1-B-4MP	-14.5 to 14.5 [-1 to1]	1/4" Male NPTF	ø1.88" [48mm]	2.66" [68mm]
SNPT2-10-B-4MP	0-150 [10]	1/4" Male NPTF	ø1.88" [48mm]	2.66" [68mm]
SNPT2-100-B-4MO	0-1500 [100]	-4 SAE	ø1.88" [48mm]	2.72" [69mm]
SNPT2-250-B-4MO	0-3625 [250]	-4 SAE	ø1.88" [48mm]	2.72" [69mm]
SNPT2-400-B-4MO	0-5800 [400]	-4 SAE	ø1.88" [48mm]	2.72" [69mm]
SNPT2-600-B-4MO	0-8700 [600]	-4 SAE	ø1.88" [48mm]	2.72" [69mm]

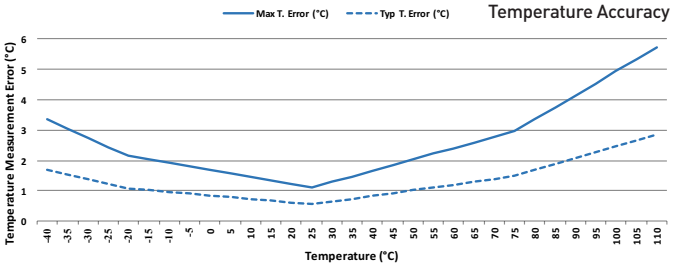
Quick Couplers



Part Number	Pressure Rating psi [bar]	Port	D	H
SNPT2-100-B-4MO-EMA	0-1500 [100]	EMA	ø1.88" [48mm]	4.00" [101mm]
SNPT2-250-B-4MO-EMA	0-3625 [250]	EMA	ø1.88" [48mm]	4.00" [101mm]
SNPT2-400-B-4MO-EMA	0-5800 [400]	EMA	ø1.88" [48mm]	4.00" [101mm]
SNPT2-600-B-4MO-EMA	0-8700 [600]	EMA	ø1.88" [48mm]	4.00" [101mm]
SNPT2-100-B-4MO-PD	0-1500 [100]	PD	ø1.88" [48mm]	4.40" [112mm]
SNPT2-250-B-4MO-PD	0-3625 [250]	PD	ø1.88" [48mm]	4.40" [112mm]
SNPT2-400-B-4MO-PD	0-5800 [400]	PD	ø1.88" [48mm]	4.40" [112mm]

Note: Products in catalog are currently only for sale in the U.S., Canada and Europe. For sales information outside of these regions, please contact your Parker representative.

Temperature Accuracy



How to Order:

SN PT 2 - 10 - B - 4 MO - EMA

- SensoNODE Series
- Types of Sensor
  PT: Pressure & Temperature
- Generation II
- Pressure Rating
  1: -1 to 1 bar/-14.5 to15 psi
  10: 10 bar/150 psi
  100: 100 bar/1500 psi
  250: 250 bar/3625 psi
  400: 400 bar/5800 psi
  600: 600 bar/8700 psi
- Wireless Signal
  B: Bluetooth
- Port Size(1/6")
  4: 1/4"
- Port Configuration
  MO: Male SAE
  MP: Male Pipe
- QC Version
  EMA: EMA Quick Disconnect Profile
  PD: PD Quick Disconnect Profile

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Features:

- User-definable measurement units (F°/C°) for convenient and familiar data readings
- Port Options: Male NPTF and SAE
- Corrosion-resistant materials for challenging environments.
- User-selectable measurement and broadcast intervals. Refer to SCOUT Mobile for more information about capabilities and modalities.
- Available in unique foot and clamp designs for quick attachment to pipe or hard tubing.

Sensor Technical Data

					
Housing Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Nylon
Port	1/4" Male NPTF	-4 SAE	1/4" Male NPTF	Foot	Clamp
Wetted Parts Material	17-4 Stainless	17-4 Stainless and Nitrile	17-4 Stainless	Stainless	Stainless
Measurement Range (Fluid Temperature)	-40°F to 230°F [-40°C to 110°C]	-40°F to 230°F [-40°C to 110°C]	-40°F to 230°F [-40°C to 110°C]	-40°F to 257°F [-40°C to 125°C]	-40°F to 257°F [-40°C to 125°C]
Working Pressure	0-10k psi [0-700 bar]	0-10k psi [0-700 bar]	0-1500 psi [0-100 bar]	N/A	N/A
Max. Overload Pressure	3x	3x	2x	N/A	N/A
Burst Pressure	4x	4x	3x	N/A	N/A
Accuracy (at 77°F/ 25°C)	±3.0%	±3.0%	±3.0%	±5.0%	±5.0%
Resolution (from 14°F to 120°F)[-10°C to 44.8°C]	1°F [.56°C]	1°F [.56°C]	1°F [.56°C]	2°F [1.12°C]	2°F [1.12°C]
Measurement and Broadcast Intervals	User Selectable	User Selectable	User Selectable	User Selectable	Measurement Only (1 sec)
Response Time (minimum)	1 sec	1 sec	1 sec	1 sec	1 sec
Ambient Temperature (battery limited)	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]	-4°F to 158°F [-20°C to 70°C]
Full Range Life Cycles	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million
Certifications	FCC, IC, CE	FCC, IC, CE	FCC, IC, CE	FCC, IC, CE	FCC, IC, CE
Battery (Panasonic is recommended brand)	CR123A	CR123A	CR123A	CR123A	CR2450
IP Rating	IP65	IP65	IP65	IP65	IP65

Note: Consult QCD for other port options and port seal materials.

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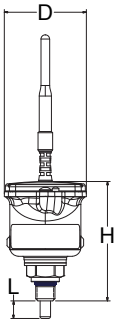
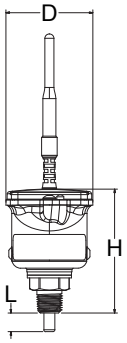
Temperature Sensors – Ported

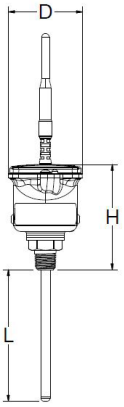

MO




MP

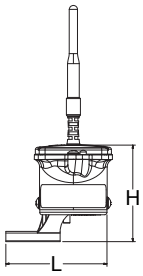


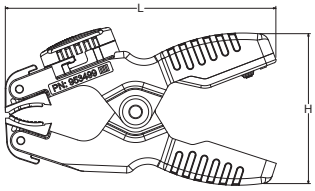

Probe



Part Number	Fluid Temperature Range	Port	D	H	L
SNT2-700-B-4MO	-40°F to 230°F [-40°C to 110°C]	-4 SAE	ø1.88" [48mm]	2.72" [69mm]	0.40" [10.16mm]
SNT2-700-B-4MP	-40°F to 230°F [-40°C to 110°C]	1/4" Male NPTF	ø1.88" [48mm]	2.66" [68mm]	0.40" [10.16mm]
SNT2-100-B-4MO-0335	-40°F to 230°F [-40°C to 110°C]	-4 SAE/Probe	ø1.88" [48mm]	2.72" [69mm]	3.35" [85mm]
SNT2-100-B-4MP-0335	-40°F to 230°F [-40°C to 110°C]	1/4" Male NPTF/Probe	ø1.88" [48mm]	2.66" [68mm]	3.35" [85mm]

Temperature Sensors – Foot and Clamp





Part Number	Fluid Temperature Range	L	H	Optimal Clamping
SNT2-0-B-FT	-40°F to 257°F [-40°C to 125°C]	2.42" [61.5mm]	2.31" [58.7mm]	> Ø.25"+ [>Ø6.4mm]
SNT-0-B-CL-KB	-40°F to 257°F [-40°C to 125°C]	5.24" [133.1mm]	3.06" [77.7mm]	Ø.25" to Ø1.5" [Ø6.4mm-Ø38.1mm]

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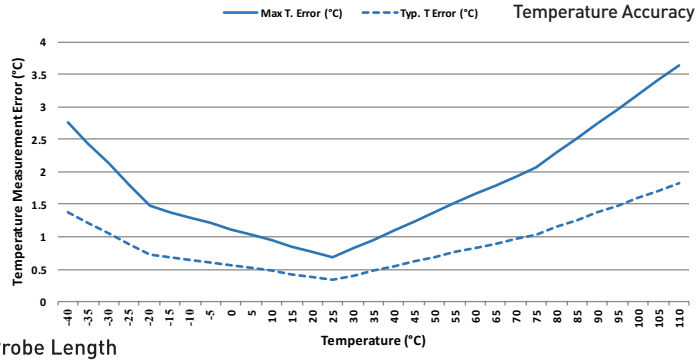

How to Order:

SN T 2 - 100 - B - 4 MP - 0335

- **SensoNODE Series**
- **Types of Sensor**
  T: Temperature
- **Generation II**
- **Pressure Rating**
  0: 0 psi = Clamp
  0: 0 psi = Foot
  700: 700 bar/10k psi
  100: 0-100 bar/0-1500 psi
- **Wireless Signal**
  B: Bluetooth
- **Port Size**(1/6")
  4: 1/4"
- **Port Configuration**
  CL: Clamp
  FT: Foot
  MO: Male SAE
  MP: Male Pipe
- **Probe Length**
  No Length Listed: 0.40"
  0335: 3.35"

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Features:

- 0-100% relative humidity.
- Ideal for ambient condition and inert compressed gas monitoring applications.
- NPTF port to make plumbing and connecting easier and faster.
- Optimal mounting orientation is vertical with port facing down to prevent moisture collection.
- Sensor also provides temperature values.
- User-selectable measurement and broadcast intervals. Refer to the SCOUT Mobile for more information about capabilities and modalities.

Sensor Technical Data	
Housing Material	Polycarbonate
Port	1/4" Male NPTF
Wetted Parts Material	Brass, Nitrile, Urathane, and Gortex
Measurement Range (Humidity)	0-100% RH
Working Pressure	0-150 psi [10 bar]
Max. Overload Pressure	150 psi Max [10 bar]
Burst Pressure	4x
Accuracy (77°F/25°C, 20% RH to 80% RH, at ambient pressure)	±5% RH Max
Resolution (at 77°F/25°C)	0.1% RH
Measurement and Broadcast Interval	User Selectable
Response Time (from 33% to 75% RH)	10 secs
Ambient Temperature (battery limited)	-4°F to 158°F [-20°C to 70°C]
Temperature Accuracy (from 14°F to 185°F [-10°C to 85°C])	±1.0°F [±0.5°C]
Full Range Life Cycles	> 1 million
Certifications	FCC, IC, CE
Battery (Panasonic is recommended brand)	CR123A
IP Rating	IP65

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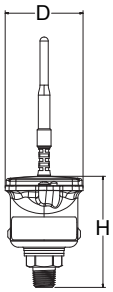
Humidity Sensors



Part Number	RH Range	Port	D	H
SNHT2-10-B-4MP	0-100%	1/4" Male NPTF	ø1.88" [48mm]	2.66" [68mm]

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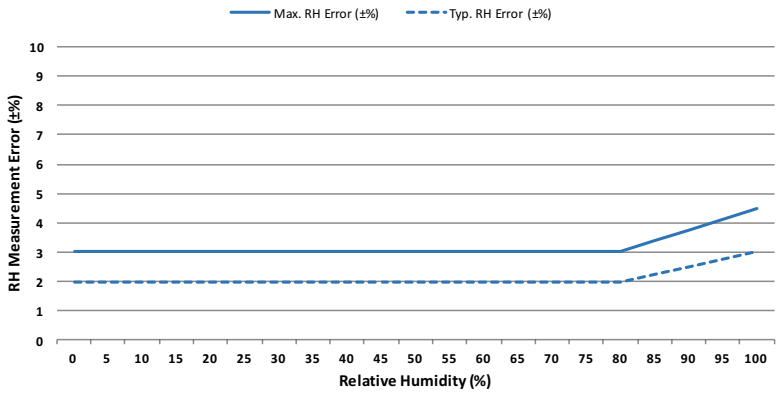
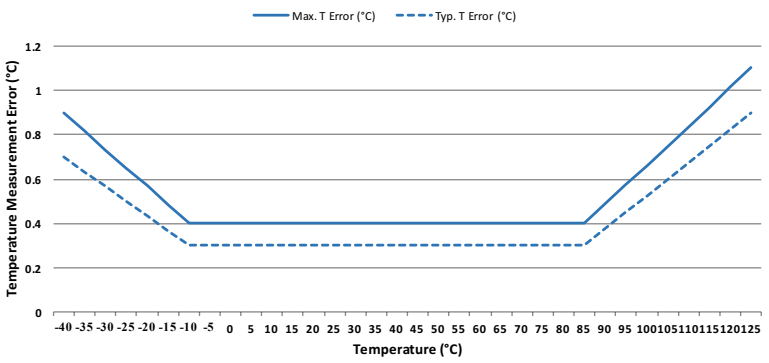
RH Accuracy



Temperature Accuracy



How to Order:

SN HT 2 - 10 - B - 4 MP

- SensoNODE Series
- Types of Sensor: HT: Humidity
- Generation II
- Pressure Rating: 10: 10 bar/150 psi
- Wireless Signal: B: Bluetooth
- Port Size(1/6"): 4: 1/4"
- Port Configuration: MP: Male Pipe

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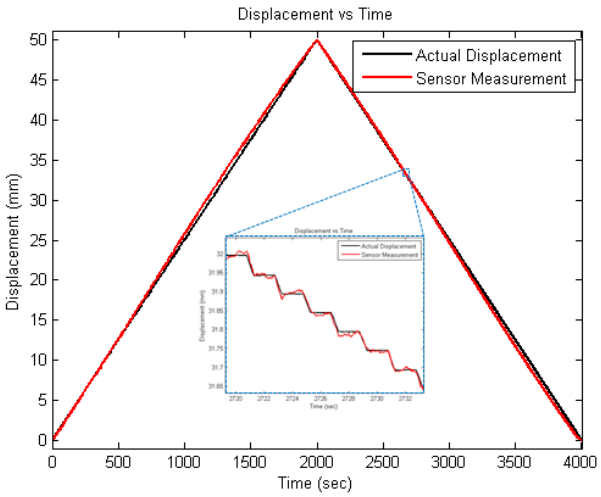
Features:

- Magnetic base for tool free mounting.
- Threaded stud port provides alternative mounting option where magnetic base is not suitable.
- Soft, thin and conformable sensors.
- Reliable accurate measurements while being strained up to 100% for millions of cycles.
- Resilient silicone rubber that can withstand harsh environments.

Sensor Technical Data		
Active Area Dimensions	50mm x 14mm	100mm x 14mm
Maximum Extension	100mm	200mm
Resolution	±0.1% strain FS (±50µm)	±0.1% strain FS (±100µm)
Sensitivity	0.026% strain FS (13µm)	0.026% strain FS (26µm)
Linearity	±1% FS	±1% FS
Hysteresis	±1% FS	±1% FS
Stiffness	0.15 N/mm	0.15 N/mm
Measurement Outputs	Percent strain in 100ths of a percent of length of active area; temperature in °C or °F	Percent strain in 100ths of a percent of length of active area; temperature in °C or °F
Sampling Rate	1Hz for standard configuration	1Hz for standard configuration
Ambient Temperatures	-40°F to +185°F, [-40°C to +85°C]	-40°F to +185°F, [-40°C to +85°C]
Full Range Life Cycles	> 5 million	> 5 million
IP Rating	IP67	IP67

Transmitter Technical Data	
Base Material	Aluminum
Housing Material	Polycarbonate
Measurement and Broadcast Interval	User Selectable
Temperature Range with Wired Power	-40˚F-185˚F
Temperature Range with Battery	-4˚F-158˚F
Certifications	FCC, IC
Battery (Panasonic is recommended brand)	CR123A
IP Rating	IP65



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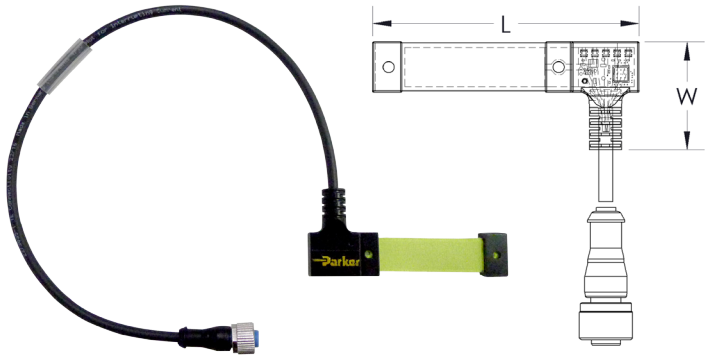
Sensor Kit

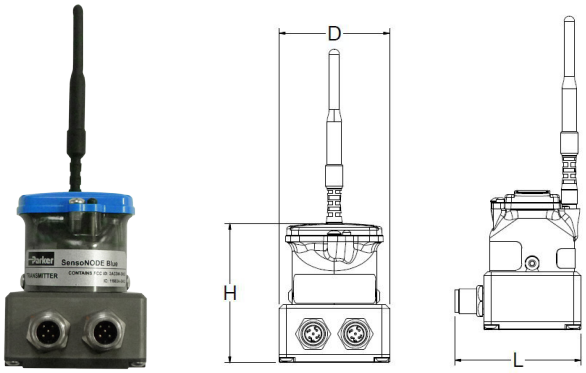
Part Number	Transmitter	Sensors
SNES2-KIT-B-50	(1) SNES2-B	(2) 50mm

Sensors



Part Number	Sensor Length (L)	Sensor Width (W)	Cable Length
EAPS-50RT14FS-3-1-C3M	1.97" [50mm]	0.67" [17mm]	18" [457.2mm]
EAPS-100RT14FS-3-1-C3M	3.94" [100mm]	0.67" [17mm]	18" [457.2mm]

Transmitter



Part Number	Base Mounting Thread	D	H	L
SNES2-B	1/4-28 UNF x 0.45" [11mm]	2.11" [54mm]	2.67" [68mm]	2.41" [61mm]

Note: Products in catalog are currently only for sale in the U.S. and Canada.
For sales information outside of these regions, please contact your Parker representative.

How to Order:

EAP S - 50 RT 14 F S - 3 - 1 - C3 M

Material
EAP: Electroactive Polymer

Type of Sensor
S: Strain

Length of Active Area
50: 50mm
100: 100mm

Shape of Active Area
RT: Rectangular

Width of Active Area
14: 14mm

Encapsulation
F: Non-conductive Fabric

Sheild
S: Shielded

Connection Style
3-1C3M: Industrial M12 Connection

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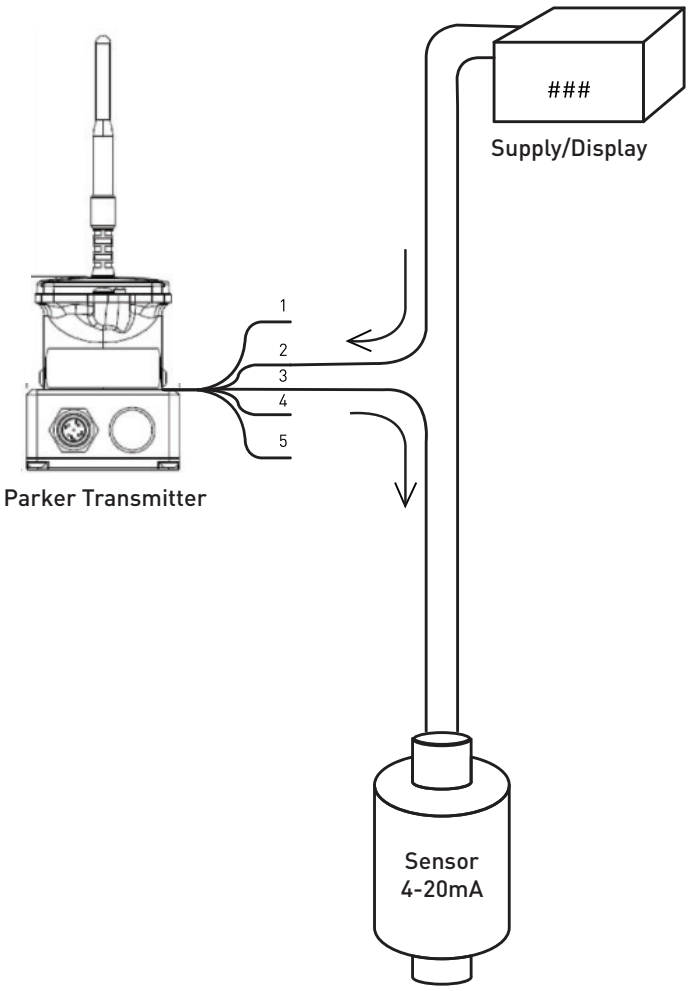
Features:

- Connects inline with any 4-20mA Sensor.
- Transmits wired sensor output into SCOUT Mobile App, including alarms and trend data.
- Magnetic base for tool free mounting.
- Threaded stud port provides alternative mounting options where magnetic base is not suitable.
- Definable mapping feature in SCOUT Mobile App to present 4-20mA signal in user defined units.
- Requires connection cable SCK-400-xx-xx in conjunction with transmitter and 4-20mA Sensor.

Transmitter Technical Data	
Base Material	Aluminum
Housing Material	Polycarbonate
Accuracy	0.5% (additive to source)
Resolution	0.1%
Temperature Range with Wired Power	-40˚F-185˚F
Temperature Range with Battery	-4˚F-158˚F
Measurement and Broadcast Interval	User Selectable
Full Range Life Cycles	> 1 million
Certifications	FCC, IC
Battery (Panasonic is recommended brand)	CR123A
IP Rating	IP65



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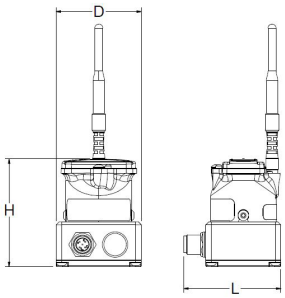
4-20mA Transmitter



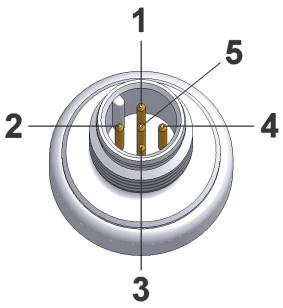
Part Number	Base Mounting Thread	D	H	L
SN422-B	1/4-28 UNF x0.45" [11mm]	2.11" [54mm]	2.67" [68mm]	2.41" [61mm]

Note: Products in catalog are currently only for sale in the U.S. and Canada.
For sales information outside of these regions, please contact your Parker representative.

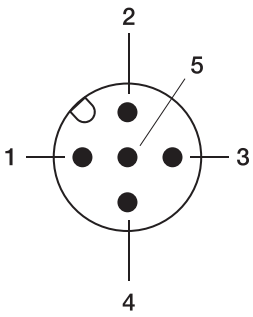
Pin Assignment

PIN	Connection	Wire Color
1	No Connection	Brown
2	4-20mA Signal In	White
3	4-20mA Signal Out	Blue
4	No Connection	Black
5	No Connection	Gray

Transmitter

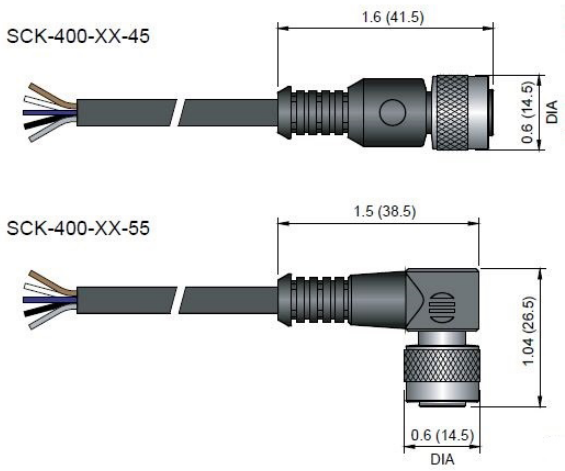


Cable



M12 Connection Cable

Part Number	Cable Length	Plug-in Connector
SCK-400-02-45	6.5 ft [2m]	M12 socket, straight
SCK-400-02-55	6.5 ft [2m]	M12 socket, 90°
SCK-400-05-45	16 ft [5m]	M12 socket, straight
SCK-400-05-55	16 ft [5m]	M12 socket, 90°
SCK-400-10-45	32.5 ft [10m]	M12 socket, straight
SCK-400-10-55	32.5 ft [10m]	M12 socket, 90°



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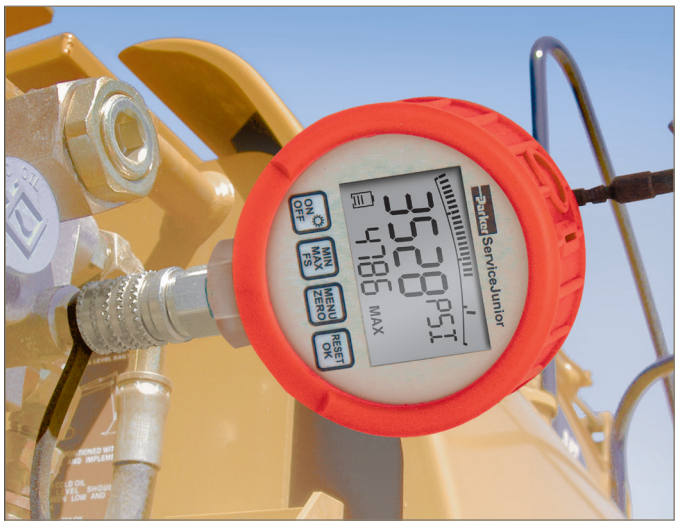

Features:

- Wireless, remote readings
- Easy operation
- Hand held digital pressure gauge
- Measure and Display - Pressure
- Backlit display
- User-adjustable pressure units
- Min/Max memory
- Battery life indicator
- Ranges for hydraulics and pneumatics
- Scanning rate of 10ms
- Fluid temperature: -4˚F to 176˚F
- Certifications: FCC, IC

Cover Color Code	
Blue	-14.5 to 230 psi (-1 to 16 bar)
Green	0 to 1500 psi (0 to 100 bar)
Orange	0 to 5800 psi (0 to 400 bar)
Red	0 to 8700 psi (0 to 600 bar)

Digital pressure monitoring

- Capture minimum/maximum pressure changes at a rate of 10 ms
- Digital readout more accurate than mechanical
- Exportable records and proof-of-work statements
- Set alarms, create/view trend graphs, create asset records

Wireless operation

- Powered by SCOUT Mobile Software
- Fast accurate readings
- No more wiring or hoses getting caught in machinery
- Line of sight is not needed to obtain measurement
- Allows users to be away from machinery while in use and under full load, reducing safety risks

Scalable and expandable

- Increase or decrease the total number of gauges used
- No need to reconfigure wired infrastructure
- Works with SensoNODE™ Blue sensors via SCOUT Mobile

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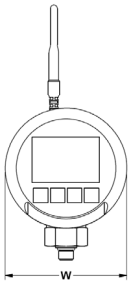
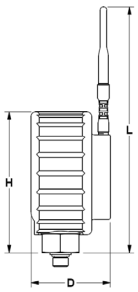
ServiceJunior CONNECT





ServiceJunior CONNECT (PD Coupler*)	ServiceJunior CONNECT (EMA3 Coupler**)	ServiceJunior CONNECT (1/4"NPT Port)	Measuring Range	Overload Pressure (psi)	Resolution (psi)	Accuracy
SCJR-0250-PD-BLE2	SCJR-0250-EMA-BLE2	SCJR-0250-4MP-BLE2	-14.5 to 230 psi (-1 to 16 bar)	460	0.1	0.5% FS
SCJR-1500-PD-BLE2	SCJR-1500-EMA-BLE2	SCJR-1500-4MP-BLE2	0 to 1500 psi (0 to 100 bar)	2,900	1	0.5% FS
SCJR-5800-PD-BLE2	SCJR-5800-EMA-BLE2	SCJR-5800-4MP-BLE2	0 to 5800 psi (0 to 400 bar)	11,600	1	0.5% FS
SCJR-8700-PD-BLE2	SCJR-8700-EMA-BLE2	SCJR-8700-4MP-BLE2	0 to 8700 psi (0 to 600 bar)	14,500	1	0.5% FS

Product Dimensions	W	D	H	L
ServiceJunior CONNECT	3.52" [89.40mm]	2.28" [57.91mm]	4.04" [102.61mm]	7.05" [179.07mm]

Note: Products in catalog are currently only for sale in the U.S. and Canada.
For sales information outside of these regions, please contact your Parker representative.

Battery life is dependent upon wireless transmission rate:
1 second rate = 100 hours of battery life 2 second rate = 200 hours of battery life

* PD Couplers rated to 6,000 psi max
** EMA3 Couplers rated to 9,000 psi max
Note: To receive ServiceJunior with calibration certificate, add K- to the beginning of the part number. (ie K-SCJR-1500-PD)

Accessories

Part Number	Description
PD240	PD Series Diagnostic Coupler
SCA-7/16-EMA-3	7/16 - 20UNF-2B female to M16X2.0 EMA3 female swivel
SCJA-1/4	7/16 - 20UNF-2B female to 1/4" NPT male adapter
PDH-19	19" PD Hose extension to be used with PD nipple
PDH-32	32" PD Hose extension to be used with PD nipple
SMA3-400	16" (400 mm) Hose assembly for EMA M16X2.0 interface
SCC-300	Storage case for three gauges and diagnostic adapters

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Features:

- Supplies continuous power to sensors.
- Used with IEC/UL 508 Class 2 power supply.
- Easy upgrade eliminates the need for battery replacement.
- Increases ambient temperature range of SensoNODE products to match fluid media temperature ranges.
- FCC, IC certified when used with SensoNODE products.

Technical Data	
Part Number	SNWP2-B
Wire Length	9.8 ft [3m]
Temperature Range	-40˚F-185˚F
Input Power	5-36 Volts DC
Output Power	3 Volts DC
Connection	Flying lead 24 AWG Wires
Form	CR123A Battery

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SCC-255

SCC-260

SensoNODE Accessory Case

Part Number	L	W	D	Case
SCC-255*	14"	11.5"	5"	Blow Molded Case
SCC-260*	16.5"	13"	7"	Ruggedized Case with Room for Tablet

*Sensor products not included.

Battery (CR123A)

Part Number	Technology	Voltage
QX-008-121	Lithium Ion	3.00V

EMA3 Series – Test Port Couplings

Male Pipe Thread

Part Number	Port Thread Size	Wrench Flats	Interface Thread Size	Overall Length	Weight
EMA3/1/8NPT	1/8-27NPT	17	M16X2.0	1.81" [46mm]	0.15lb [.07kg]
EMA3/1/4NPT	1/4-18NPT	17	M16X2.0	1.98" [50.3mm]	0.16lb [.07kg]

SAE Straight Thread

Part Number	Port Thread Size	Wrench Flats	Interface Thread Size	Overall Length	Weight
EMA3/7/16-20UNF-2A*	7/16-20UNF	17	M16X2.0	1.88" [47.8mm]	0.15lb [.07kg]
EMA3/9/16-18UNF-2A*	9/16-18UNF	19	M16X2.0	1.88" [47.8mm]	0.17lb [.08kg]

*O-Ring seal on port

EMA Gauge Adapter

Part Number	Port Thread Size	Wrench Flats	Interface Thread Size	Overall Length	Weight
MAVMD1/4NPT-MA3	1/4-18NPT	19mm	M16X2.0	2.22" [56.4mm]	0.18lb [.08kg]
SCA-7/16-EMA-3	7/6-20	19mm	M16X2.0	1.60" [40.64mm]	0.15lb [.45kg]

Note: Consult QCD or Catalog #3800 for additional accessories and port options.

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PD Couplings

Couplers- Female Thread

Body Size	Part Number	Thread Size	Overall Length	Wrench Flats	Largest Diameter	Weight
1/8	PD240	7/16-20 UNF	2.12	0.81	0.96	0.26
1/8	PD242	1/4-18 NPTF	2.12	0.81	0.96	0.25

Nipples- Female Pipe Thread

Body Size	Part Number	Thread Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD322	1/8-27 NPTF	1.48	0.78	0.56	0.65	0.06
1/8	PD342	1/4-18 NPTF	1.63	0.93	0.75	0.87	0.12

Nipples- Male Pipe Thread

Body Size	Part Number	Thread Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD323	1/8-27 NPTF	1.55	0.85	0.69	0.79	0.17
1/8	PD343	1/4-18 NPTF	1.48	0.78	0.69	0.79	0.06
1/8	PD363	3/8-18 NPTF	1.50	1.13	0.81	0.96	0.09

Nipples- Male Straight Thread

Body Size	Part Number	Thread Size ORB	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD341	7/16-20 UNF	1.60	0.90	0.69	0.79	0.08
1/8	PD361	9/16-18 UNF	1.32	0.62	0.69	0.79	0.06

Note: Consult QCD or Catalog #3800 for additional accessories and port options.

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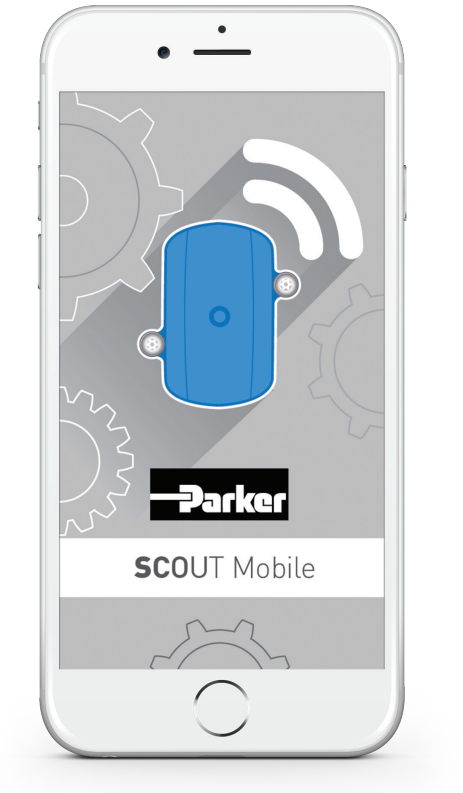
SCOUT Mobile Software

SCOUT™ Mobile is used for diagnostics and condition monitoring for predictive maintenance. The app allows users to connect to Parker's SensoNODE™ wireless sensors to gather measurements for a wide range of fluid and gas applications.

SCOUT Mobile puts vital information and analytics in the palm of the user's hand. It offers real-time and historic trend information collected by SensoNODE™ wireless sensors and presents it in a way that makes sense to user's operation, providing the analytics needed to optimize asset performance. Data can also be easily exported and shared.

SCOUT Mobile alerts users to unexpected condition changes that may damage components and equipment. As levels rise above or fall below user-defined thresholds, users are alerted to these events, giving them an opportunity to address potential issues that could harm the system over time, helping to reduce unplanned downtime and increase productivity.



Capabilities:
- Mobile application designed for iOS and Android
- Connect and display SensoNODE sensors

Features:
- Intuitive design and user experience
- Auto recognition enables users to quickly add and connect multiple sensors concurrently
- Easy readability of measurements with visualized data in digital gauges and trend charts
- View real-time measurements that includes current values and minimum/maximum indicators in addition to historical sensor information
- Configurable alarm thresholds with alerts when thresholds are exceeded; monitoring continues while sensors are unattended
- Customizable trend charts and dashboards
- Mapping function for pressure, 4-20mA and displacement sensors that correlates raw measurements into your "specific" units
- Easily export and share data

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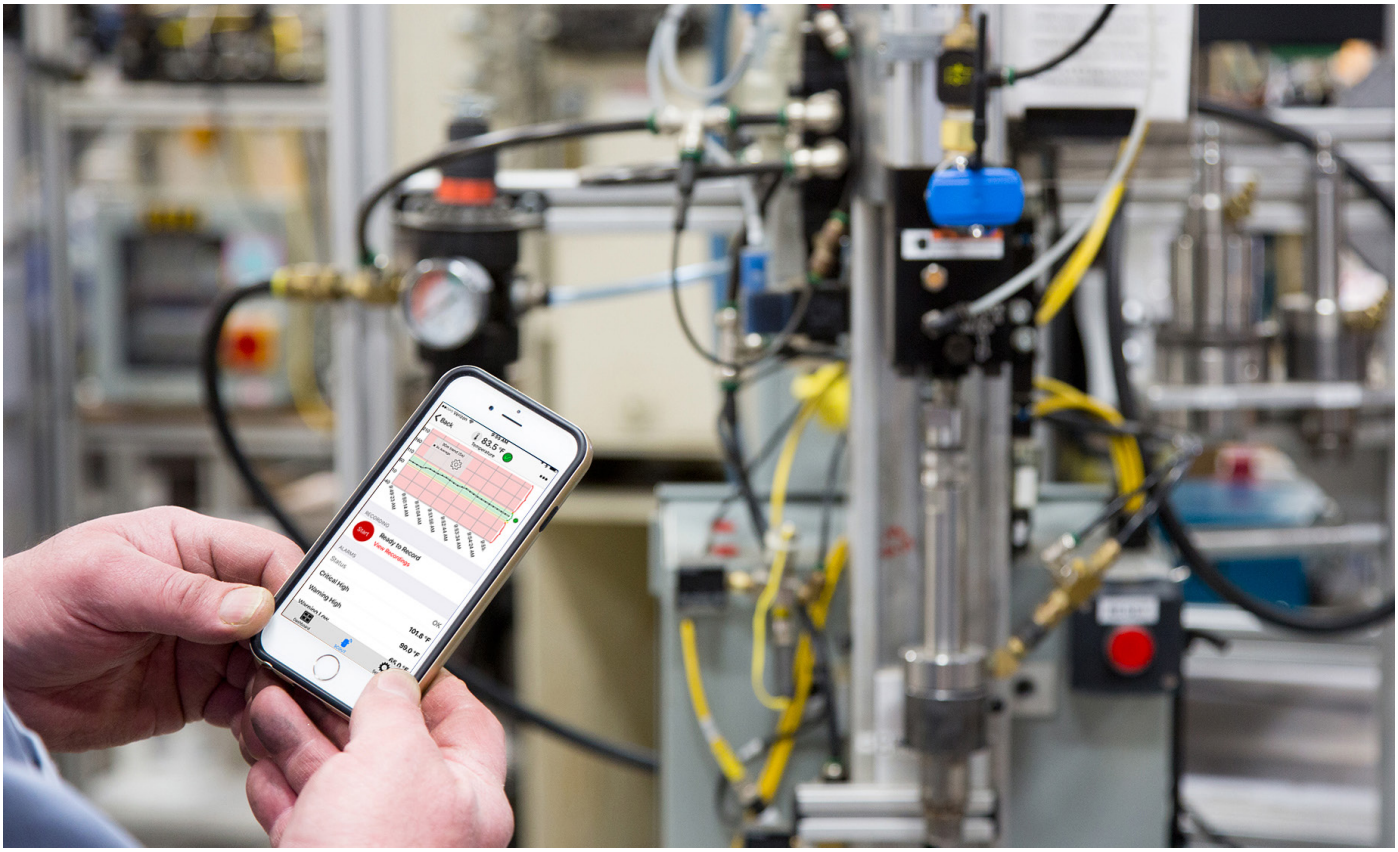

Compatibility:
- Requires iOS 9 or newer/Android 4.4 or newer

Languages:
- English

Supported Devices:
- iPhone (4S and newer)
- iPod Touch (5th Gen and newer)
- iPad 3, 4
- iPad Air and iPad Air 2
- iPad Mini (1st Gen and newer)
- iPad Pro
- Compatible with most Bluetooth Low Energy (BLE) supported Android devices

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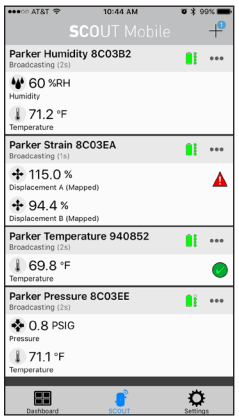
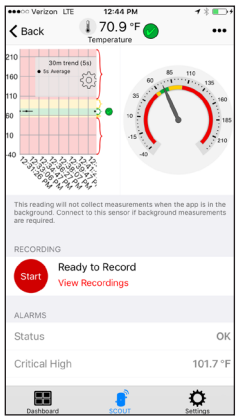
Sensor Inventory



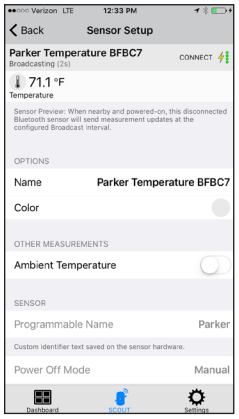
One touch access to sensors that have been added to you mobile device with their latest measurements, alarm status, and sensor mode - broadcasting or connected.

Measurement Detail



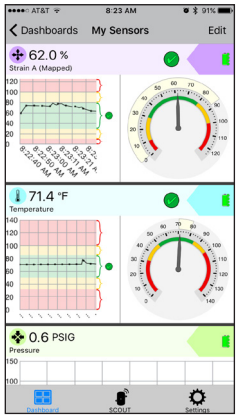
Focus on a single measurement with trend charts, digital gauge, alarm thresholds and other useful features for the operational professional.

Sensor Setup



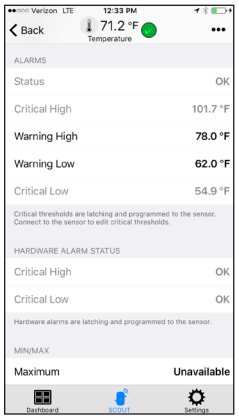
Configure sensors with individually programmed name, highlight color and modes of operation to suit different use cases.

Dashboard



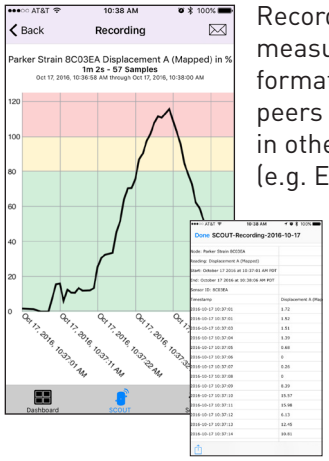
Simplify monitoring activities by grouping measurements that belong together and compare the group's trends and gauges.

Alarm Settings



Define measurement thresholds to get notified of important changes. Critical thresholds are programmed to sensor firmware for exception monitoring between readings.

Record and Export



Record and export measurements in CSV format for sharing with peers or further analyzing in other applications (e.g. Excel).

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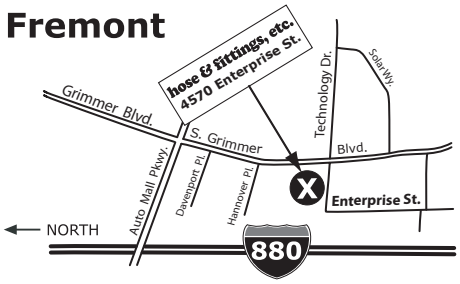
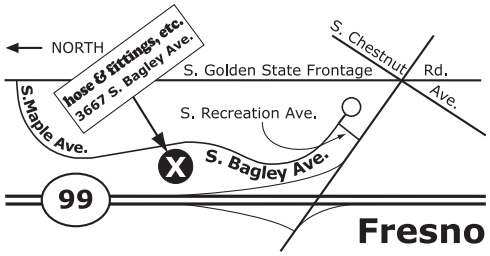
Five convenient locations - same great service

Fremont



4570 Enterprise St.
Fremont, CA 94538
Phone: 510.661.0151
Hours: 7 a.m. - 5 p.m. (M-F)

Web Page



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Fresno, CA 93725
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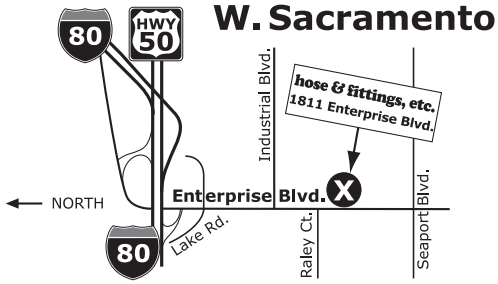
Web Page

W. Sacramento



1811 Enterprise Blvd.
West Sacramento, CA 95691
Phone: 916.372.3888
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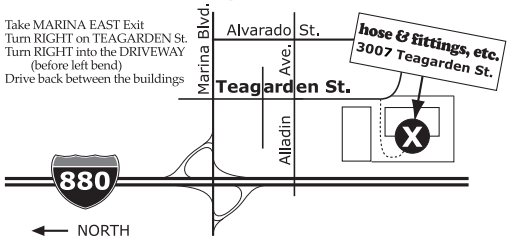
San Leandro



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San Leandro, CA 94577
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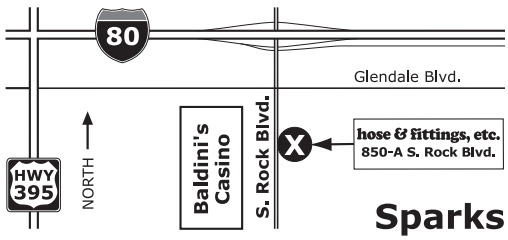

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Sparks, NV 89431
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