



# SCOUT™ Mobile User Guide 3.0

Android Guide 3864 - SCOUT | February 2017



ENGINEERING YOUR SUCCESS.

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# SCOUT™ Mobile – Supported Devices

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## Multiple Manufacturers

- Android operating system (4.4 and newer)

## The Three Tabs of SCOUT™ Mobile 3.0

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### SCOUT

- Manage sensor inventory and interact with measurements

### Dashboard

- Coming soon. Available in SCOUT™ Mobile 3.1

### Settings

- Customize the application

## General Notes

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### Swiping Gesture

Many elements in SCOUT™ Mobile can be Swiped to access common functions

### Location

SCOUT™ Mobile uses a mobile device's Location function to search for available SensoNODE™ Blue sensors using Bluetooth Low Energy (LE) wireless communication protocol. If the user does NOT allow SCOUT™ Mobile access to the device's location, SCOUT™ Mobile will NOT be able to connect to any Parker SensoNODE™ products. The following popup message will appear upon opening SCOUT™ Mobile for the first time to notify the user.

*In order to provide access to scan for Bluetooth LE devices locally, SCOUT™ Mobile will request access to this mobile device's location. If you do not provide access, Parker SensoNODE products will be unavailable.*

### Connected versus Broadcast

Connecting to a sensor creates an exclusive connection to that sensor making it unavailable to other nearby mobile devices. While **Connected**, a sensor sends reliable **Measurement** updates to ONLY one mobile device at a specified interval. A **Connected** mobile device has the ability to communicate and perform sensor setup and configuration. While **Connected**, SCOUT™ Mobile is kept awake and can respond to that specific sensor's **Measurement** updates. **Connected** sensors allow SCOUT™ Mobile to generate **Critical Alarm** notifications even while the mobile device's screen is locked or powered-off.

When NOT **Connected**, most sensors will become "available" and some sensors can **Broadcast** their sensor **Measurements**. Broadcasted sensor Measurements are "available" to other nearby devices that

have SCOUT™ Mobile open with the screen powered on and unlocked. **Broadcasting** sensors have limitations: updates are not guaranteed, and the SCOUT™ Mobile needs to be open and on-screen to “see” the **Broadcast Measurements**.

**Broadcast Measurements** are good for quickly checking a sensor’s current **Measurement** value.

**Connecting** to a sensor is recommended for scenarios where you need a clearer view of changes to a sensor’s **Measurement**.

## Service Desk

Navigate to <https://phscout.atlassian.net/servicedesk/customer/portal/2> for the ability to report an issue or get additional information on SCOUT™ Mobile

# Using **SCOUT™** Mobile for the First Time

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## Permissions

See **General Notes > Location** for additional information

### Mobile Device Location

A second popup will appear which will states the following:

Allow SCOUT Mobile to access this device's location?

1. Select **Never ask again** if you desire to NOT see this popup every time SCOUT™ Mobile is opened.
2. Tap **Allow** to share the device's location.

### Enable / Disable Mobile Device Location

It is possible to enable or disable SCOUT Mobile's access to the device's location after the initial setup. This is done through the Android Settings menu NOT the SCOUT™ Mobile Settings tab.

1. Tap **Settings**
2. Tap **Application Manager**
3. Tap **SCOUT Mobile**
4. Tap **Permissions**
5. Tap **Your Location**

## Add Sensor

To use a sensor, it must first be added to SCOUT™ Mobile. All powered-on, in-range, and **Disconnected** SensoNODE™ Blue sensors will be visible. The sensors are listed in the order in which they were discovered.

1. Tap **+** icon (at top of screen)
  - a. Alternatively, Tap **Add a sensor to get started** (in left-navigation window)
2. Touch **Refresh** (clears list and discovers sensors)
3. Tap desired sensor
4. You are directed to the **New Sensor** screen
5. Tap **Add** (if no changes are desired) and skip to **Measurement Detail** section
  - a. If changes are desired, continue reading **Sensor Setup** section (skip to **Sensor Setup > Preview**)

## Sensor Setup

Some sensors offer advanced settings. These can be accessed when initially adding a sensor, or from the SCOUT tab.

1. Tap the **Ellipsis** associated with desired sensor
2. Tap **Sensor Setup** (on the popup)

## Preview

The sensor and its measurement(s) are previewed at the top.

## Options

### Local Name

Every sensor in SCOUT™ Mobile has a **Local Name**. The **Local Name** is the name for the sensor hardware. The **Local Name** is only visible on the mobile device which the name is created. The **Local Name** should not be confused with a sensor's **Programmable Name** (detailed below).

1. Tap **Name**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<sensor name>** (on the popup)
4. Tap **OK**

### Color

Choose a color for easier identification. Sensor measurements will inherit a lighter version of this color. A white circle identifies the currently selected color.

1. Tap **Color**
2. Tap desired **Color**
3. Tap **OK**

## Other Measurements

Sensors have one or more measurements. The first is considered the **Primary** and cannot be changed or disabled. **Secondary** measurements can be enabled or disabled. Enabled measurements are shown in the preview at the top of the **Sensor Setup** screen. When a measurement is disabled, configuration and historical data are preserved.

# Tab: **SCOUT**

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## Available Secondary Measurements

- Displacement Sensor  
Displacement B
- Humidity Sensor  
Ambient Temperature
- Pressure Sensor  
Ambient Temperature
- Temperature Sensor  
Ambient Temperature

1. Tap **On / Off** icon to select desired mode. (Blue denotes on, white denotes off)

## Info

### Programmable Name

This setting is saved to the sensor hardware. The **Programmable Name** is the name for the sensor hardware. The programmable name is used by SCOUT™ Mobile as the default name when adding as a new sensor – viewable by all mobile devices. Changing the **Programmable Name** will not change the **Local Name** (detailed above). **Programmable Names** must be 12 characters or less, and may only contain Latin-1 characters, numbers, and a decimal point. Changing the **Programmable Name** requires the device to be **Connected** to the sensor. This option is only available for compatible sensors.

1. Tap **Programmable Name**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<programmable name>** (on the popup)
4. Tap **OK**

### Broadcast Interval

This option is only available for compatible sensors. The **Broadcast Interval** configures how often the sensor broadcasts measurement data when the sensor is Disconnected. A shorter interval uses more battery than longer intervals. A longer interval directly impacts how long it takes to **Connect** to the sensor. Changing the interval requires the sensor to be **Connected**. A checkmark identifies the currently selected **Broadcast Interval** value. When the **Broadcast Interval** is set to **Disabled**, the sensor will automatically power off after two minutes if the sensor is **Disconnected**. **Broadcast Mode** is only enabled when the value is not set to **Disabled**.

1. Tap **Broadcast** Interval
2. Tap desired **Broadcast Interval** value



## Measurement Interval

This option is only available for compatible sensors. The **Measurement Interval** configures how often the sensor sends measurement data when the sensor is **Connected**. Longer measurement intervals send data less frequently – ideal for long-duration recordings. Changing the interval requires the sensor to be **Connected**. A checkmark identifies the currently selected **Measurement Interval** value.

1. Tap **Measurement Interval**
2. Tap desired **Measurement Interval** value

The sensor information section provides technical information at a glance.

The following information is available:

**Firmware Revision:** Sensor's firmware version

**Hardware Revision:** Sensor's electronic hardware version

**Battery:** Strength of the sensor's battery

**Signal RSSI:** Strength of the sensor's Bluetooth signal

**Sensor ID:** Sensor's unique identifier

The above information is available to copy and paste.

1. Tap the desired Information
2. Tap **Copy** (on the popup)

Note: Tap **Add** (if sensor is being added to mobile device for first time)

## Measurement Detail

Sensors have one or more measurements. The first **Measurement** is the **Primary Measurement** and cannot be changed or disabled. Each measurement has a numeric value and a unit associated with it. For example, a pressure sensor has two measurements: **Pressure** (Primary) and **Ambient Temperature** (Secondary). Touching either **Measurement** (in the left-navigation window) will display the respective **Measurement Detail**.

## Visualizations

At the top of the screen, the current measurement icon, value, unit, and name are shown along with a **Visualization** (such as a **Trend Chart**, **Radial Gauge**, or both.) **Visualizations** can be changed using the **Ellipsis** icon. **Visualizations** can be enlarged as well.

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## Trend Chart

By default, the trend chart calculates an average for a given **Trend Duration** and **Sample Period**. The default **Trend Duration** is 30 minutes and default **Sample Period** is five seconds. This means the **Trend Chart** will display **Measurements** taken every five seconds for 30 minutes. Touch the legend to change the **Trend**, show/hide the legend, export data to CSV, adjust zoom settings, or reset **Trend Graph Data**. Multiple **Trends** may be stored in the background concurrently.

## Trend Chart Settings

1. Tap **Gear** icon (in the **Trend Chart Legend**)

### Trend

1. Tap **Current Trend**
2. Tap **On / Off** icon to store desired **Trend Graph Data**. (Blue denotes on, white denotes off)

### Display Trend Data in Trend Chart

The **Trend** with a gray background will be displayed on the **Trend Chart**.

If desired **Trend Graph Data** is currently being stored:

1. Tap desired **Trend** to change background to gray

If desired **Trend Graph Data** is currently NOT being stored:

1. Tap **On / Off** icon to store desired **Trend Graph Data**. (Blue denotes on, white denotes off)
  2. Tap desired **Trend** to change background to gray
- or
1. Tap desired **Trend** (**Measurement Detail** screen automatically displays after)

## Zoom and Scroll

It is possible to zoom in on the **Trend Chart** in the X direction only, Y direction only, or the X and Y directions simultaneously. After zooming in or out by **Pinching** or **Spreading** the **Trend Chart**, the user can scroll around the **Trend Chart** as well.

1. Tap **On / Off** icon next to desired **Axis** to enable. (Blue denotes on, white denotes off)

## Reset Graph Data

The **Trend Chart** stores the data according to the **Trend Duration**. Once the **Trench Chart** has been storing data for longer than the **Trend Duration**, the most recent data is maintained.

For example, if the **Trend** is set to a **Trend Duration** of 30 minutes and a **Sample Period** of five seconds - 30m trend (5s) – and the **Trend Graph Data** has been stored for 120 minutes, the initial 90 minutes will be discarded and the **Trend Chart** (and **Trend Graph Data**) will display the most recent 30 minutes.

The **Trend Graph** can also be reset and the **Trend Graph Data** be deleted. Once deleted, this data CANNOT be restored.

1. Tap **Reset Graph Data**
2. Tap **Reset** (on the popup)

## Export Trend Graph Data

Exported **Trend Data** provides the **Sensor ID, Local Name, Measurement Name, Trend, Start Time, End Time, Timestamp** determined by the device running SCOUT™ Mobile, maximum **Measurement**, minimum **Measurement**, and average **Measurement** values (all to one decimal place).

1. Tap the **Envelope** icon (in the top-right of the screen)
2. Tap the desired sharing method icon
3. Enter **<contact(s)>** in the **To:** field
4. Tap **Send**

## Radial Gauge

The **Radial Gauge** is a **Visualization** that uses a needle and labels to show the current measurement value. The needle displays the current **Measurement** value. **Radial Gauge** visualization adjustments may also be made (see **Visual Limits** below).

## Display Trend Chart

The **Trend Chart** is displayed by default.

1. Tap the **Ellipsis** icon (in the top-right of the screen)
2. Tap **Chart**

## Display Radial Gauge

1. Tap the **Ellipsis** icon (in the top-right of the screen)
2. Tap **Gauge**

# Tab: **SCOUT**

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## Display Trend Chart and Radial Gauge

1. Tap the **Ellipsis** icon (in the top-right of the screen)
2. Tap **Chart and gauge**

## Recording

Unlike **Trends**, recordings save all **Measurements** received from a sensor - one **Measurement** at a time. The sensor must be **Connected** for a **Measurement** to be recorded. A CSV can be exported for each recording.

**Recordings** are identified by the date (mm/dd/yy), time **Recording** initiated (as determined by device running SCOUT™ Mobile), duration of **Recording**, and number of samples taken within **Recording**.

If desired, **Primary** and **Secondary Measurements** are able to be recorded simultaneously. However, the user must start two separate **Recordings** - one for each **Measurement**.

## Initiate Recording

1. Tap sensor's desired measurement to display **Measurement Detail** (in the left-navigation window)
2. Tap **Start** icon
3. Tap **Connect** (on the popup)
  - a. Only required if device is NOT **Connected** to the desired sensor **Measurement**

NOTE: A red circle will display (in the left-navigation window) when a **Recording** is active for a given sensor **Measurement**

## Terminate Recording

1. Tap sensor's **Measurement** which is currently recording (in the left-navigation window)
2. Tap **Stop** icon

## View Recording

1. Tap sensor's desired **Measurement** to display **Measurement Detail** (in the left-navigation window)
2. Tap **View Recordings**
3. Tap desired **Recording**

## Share Recording

1. Tap sensor's desired **Measurement** to display **Measurement Detail** (in the left-navigation window)
2. Tap **View Recordings**
3. Tap desired **Recording**
4. Tap **Envelope** icon (in the top-right of the screen)
5. Tap the desired sharing method icon
6. Enter **<contact(s)>** in the **To:** field
7. Tap **Send**

## Delete Recording

1. Tap sensor's desired **Measurement** to display **Measurement Detail** (in the left-navigation window)
2. Tap **View Recordings**
3. Tap desired **Recording**
4. Tap **Delete** icon next to desired recording
5. Tap **Delete** (on the popup)

## Alarms

### Status

The **Status** identifies the current condition of the sensor, with respect to the **Alarms**.

### Status Conditions

- **Critical High**
- **Warning High**
- **OK**
- **Warning Low**
- **Critical Low**
- **None**

### Alarm Thresholds

**Alarms** will generate a **Notification** in the **Notification Center** of the mobile device running SCOUT™ Mobile when the **Measurement** exceeds a user-defined **Threshold Value**. There are four configurable **Alarm Thresholds**: **Critical High**, **Warning High**, **Warning Low**, and **Critical Low**. **Alarms** are signaled with a **Triangular Exclamation Point** icon.

When a sensor **Measurement** value exceeds a **Threshold Value**, an icon is visible in the **Status** area. If the sensor is **Connected** and the device's (running SCOUT™ Mobile) screen is turned off, a notification will be generated on the lock screen.

# Tab: **SCOUT**

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**Critical Alarms** require the device running SCOUT™ Mobile to be **Connected** to the sensor to set the **Critical High** and **Critical Low Alarm Threshold Values**. These values are stored on the sensor hardware. **Warning Alarms** are stored on the mobile device running SCOUT™ Mobile. **Critical Alarms** will be visible (and active) to any subsequent mobile device which **Adds** or has already **Added** the sensor.

A **Warning Alarm** is signaled by a yellow **Triangular Exclamation Point** icon. A **Critical Alarm** is signaled by a red **Triangular Exclamation Point** icon. The direction of the **Triangular Exclamation Point** icon identifies if an **Alarm** is high or low. Once **Alarm Thresholds** are configured, SCOUT™ Mobile assumes that the non-critical and non-warning area is **OK**. The **OK** condition is signaled with a green, circular checkmark icon. The **None** condition identifies that no **Alarm Thresholds** have been set.

## Set Alarms

### Critical High

1. Tap **Critical High**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Enter desired **<critical high alarm threshold>** (on the popup)
3. Tap **Save**

### Warning High

1. Tap **Warning High**
2. Enter desired **<warning high alarm threshold>** (on the popup)
3. Tap **Save**

### Warning Low

1. Tap **Warning Low**
2. Enter desired **<warning low alarm threshold>** (on the popup)
3. Tap **Save**

### Critical Low

1. Tap **Critical Low**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Enter desired **<critical low alarm threshold>** (on the popup)
3. Tap **Save**

## Edit Alarms

### Critical High

1. Tap **Critical High**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<critical high alarm threshold>**
4. Tap **Save**

### Warning High

1. Tap **Warning High**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<warning high alarm threshold>**
4. Tap **Save**

### Warning Low

1. Tap **Warning Low**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<warning low alarm threshold>**
4. Tap **Save**

### Critical Low

1. Tap **Critical Low**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<critical low alarm threshold>**
4. Tap **Save**

## Delete Alarms

### Critical High

1. Tap **Critical High**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap **Remove** (on the popup)

# Tab: **SCOUT**

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## Warning High

1. Tap **Warning High**
2. Tap **Remove** (on the popup)

## Warning Low

4. Tap **Warning Low**
5. Tap **Remove** (on the popup)

## Critical Low

1. Tap **Critical Low**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap **Remove** (on the popup)

## Hardware Alarm Status

Certain sensor's **Primary Measurements** feature programmable **Critical Thresholds** (see **Alarm Thresholds** above) called **Latched** hardware alarms. When the **Primary Measurement** exceeds or deceeds the programmed **Critical Alarm Threshold**, the alarm will become **Latched**. A **Latched** alarm can only be reset when **Connected** to the sensor. An **OK Hardware Alarm Status** means no **Latched** hardware alarms have occurred (since the **Critical Alarm Threshold(s)** have been programmed or since the **Hardware Alarm** was **Reset**.)

## Reset Hardware Alarm

### Critical High

1. Tap **Critical High**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap **Reset** (on the popup)

### Critical Low

1. Tap **Critical Low**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap **Reset** (on the popup)



## Min/Max

**Minimum** and **Maximum** display the highest and lowest **Measurement** values the sensor has recorded. A **Minimum** or **Maximum** value can only be displayed or **Reset** when **Connected** to the sensor. The **Minimum** and **Maximum** values will display **Unavailable** when NOT **Connected** to the sensor. The **Minimum** and **Maximum** values are stored on the sensor's hardware.

### Display Minimum and Maximum Values

1. Tap the **Ellipsis** associated with desired sensor (in the left-navigation window)
2. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
3. Tap sensor's desired **Measurement** to display **Measurement Detail** (in the left-navigation window)
4. Scroll to **MIN/MAX**

### Reset the Minimum and Maximum Values

#### Reset Maximum

1. Tap **Maximum**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap **Reset**

#### Reset Minimum

1. Tap **Minimum**
  - a. Tap **Connect** (on the popup), if the sensor is NOT currently **Connected**
2. Tap **Reset**

## Customize

The **Measurement Name** may be changed. **Visual Limits** allow the user to define the **High** and **Low** values displayed within the **Trend Graph** and **Radial Gauge**.

### Measurement Name

1. Tap **Name**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<measurement name>**
4. Tap **OK**

# Tab: **SCOUT**

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## Visual Limits

1. Tap **On / Off** icon to select desired mode. (Blue denotes on, white denotes off)

### High

1. Tap **High**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<visual high>**
4. Tap **Save**

### Low

1. Tap **Low**
2. Tap backspace on the keyboard until all characters have been removed (on the popup)
3. Enter desired **<visual low>**
4. Tap **Save**

## Sensor

The last item in **Measurement Detail** shows the sensor's **Local Name**, connection status, and ability to easily **Connect** to, or **Disconnect** from, the sensor. The **Battery** strength and Bluetooth **Signal** strength are also viewable.

### Connect to Sensor

1. Tap **Connect** (on the right-side of the screen)
2. Tap **Connect Sensor** (on the popup)

### Disconnect from Sensor

1. Tap **Disconnect** (on the right-side of the screen)
2. Tap **Disconnect Sensor** (on the popup)

These options change the behavior of SCOUT™ Mobile. Unless otherwise stated, changes are automatically saved.

## Measurements

### Unit System

Measurements can be displayed in **Imperial** or **Metric** units.

1. Tap **Unit System**
2. Tap desired unit system (on the popup)

### Enable All by Default

Some sensors have more than one kind of measurement. By default, new sensors only have their primary measurement enabled. Enabling this setting will enable all measurements by default. Enabled, secondary measurements can be individually disabled within the associated **Sensor Setup**.

1. Tap **On / Off** icon to select desired mode. (Blue denotes on, white denotes off)

## Sensors

### Setup and Order

Displays a list of sensors to setup, reorder, or delete

#### Setup Sensor

1. Tap **Setup and Order**
2. Tap desired sensor
3. See **Sensor Setup** section above

#### Reorder Sensors

1. Tap **Setup and Order**
2. Tap and hold the desired sensor
3. While holding the desired sensor drag the sensor to the desired position

#### Delete Sensor

1. Tap **Setup and Order**
2. Tap desired sensor
3. Tap the red **Delete** box (at bottom of screen)
4. Tap **Delete** (on the popup)

# Tab: Settings

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## Confirm Connections

SCOUT™ Mobile will confirm all connect and disconnect actions with a prompt. Disabling this setting will remove these prompts.

1. Tap **On / Off** icon to select desired mode. (Blue denotes on, white denotes off)

## Show Device Sensors

SCOUT™ Mobile allows the mobile device's gyroscope, light, and accelerometer to be used as sensors. Enabling this setting will show these sensors in the **Available Sensors** screen.

1. Tap **On / Off** icon to select desired mode. (Blue denotes on, white denotes off)

## Diagnostics

### View and Export Report

Detailed Logging must be turned on to initiate **View** and **Export Report** (See **Detailed Logging** below for instructions). Note: Time stamp is given with respect to the mobile device's time setting.

### Export Report

1. Tap **View and Export Report**
2. Tap desired **Sharing Method** icon
3. Enter **<contact(s)>** in the **To:** field
4. Tap **Send**

### Detailed Logging

Saves a log of SCOUT™ Mobile operations and actions. Not recommended unless directed by support.

1. Tap **On / Off** icon to select desired mode. (Blue denotes on, white denotes off)

## Other

### Version

Displayed next to **Version** is the currently installed version of SCOUT™ Mobile on the device. (The build number is displayed within parentheses.) Please identify this number when contacting customer support.

### Third Party Licenses

View the details of all third-party licenses used by SCOUT™ Mobile.

1. Tap **Third Party Licenses**
2. Tap desired **Third Party License** link for more information

# Parker Fluid Connectors Group

**Your complete source** for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves, and assembly tools, locally available from a worldwide network of authorized distributors.

## **Fittings:**

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS, and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon, and thermoplastic.

## **Hose, Tubing, and Bundles:**

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

## **Worldwide Availability:**

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe, and Asia-Pacific.

For more information on **SensoNODE** and **SCOUT** products:

**Visit:** [www.parker.com/conditionmonitoring](http://www.parker.com/conditionmonitoring)

**Call:** (763) 544-7781

For more information on **SensoControl Wired Diagnostic** and **Control** products:

**Visit:** [www.parker.com/sensocontrol](http://www.parker.com/sensocontrol)

**Call:** (763) 544-7781

Sales of **SensoNODE** sensors and **SCOUT** software in U.S. only

