

BROCHURE

# TrakSYS™-Powered Smart Devices

How These Small Boxes are Poised to Impact  
Manufacturing in a Big Way



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# TrakSYS-Powered Smart Devices

With Parsec's TrakSYS-Powered Smart Devices, manufacturers now have extensive capabilities for not only collecting data but also to leverage that data for real-time operation management. They can get this done quickly, economically, and effectively regardless of infrastructure.



**Simple**



**Affordable**



**Reporting**

Our Smart Devices can be used in conjunction with a wide variety of standard sensors to capture data for analysis, decision making, and managing manufacturing activities. By utilizing a self-healing RF mesh network to directly connect the data sources to TrakSYS — on-premises or in the cloud — the need for conventional networks is eliminated. Our Smart Devices handle the heavy lifting while also delivering a big impact.

# The Setup of the Smart Devices is a Simple Three-Step Process

## 1. Power

Once powered, the RF mesh network will immediately establish the best pathway between the Smart Devices.



### Network

Coordinator IP Address	DHCP
192.168.12.136	Yes
Coordinator Host Name	Coordinator MAC Address
SmartC	B82EB5857DF

Configure

## 2. Configure Input Types

The user-friendly interface allows quick configuration of input types (e.g., analog, digital, or serial) to get you up and running in no time.

## 3. Edge Device

The Edge Device (the TrakSYS Smart Coordinator) is connected to the factory LAN for access to the TrakSYS server – on-premises or cloud. Through quick setup, data will immediately begin flowing to TrakSYS.

### TrakSYS Configuration

#### Target Endpoint

http://13.91.5.236/ts/api/root/smart

#### API Version

Automatic

# More on Input Types



## 1. Analog

0-20 mA, 4-20 mA, 0-5 VDC. Analog inputs gather 4,000 values per second and return the Maximum, Minimum, Average, and Instantaneous readings. Aggregation allows for sampling quick-changing values for uses such as vibration, temperature, and pressure analysis.



## 2. Digital

High/low logic based on a 0-30 VDC input. Digital inputs return a running count, blocked/unblocked state, counts per second, counts per minute, and milliseconds between counts. Values captured from this type of input are commonly used for counters, flow meters, encoders, and tracking the on/off state of equipment.



## 3. Serial

Up to 19200 bits per second. Data can be captured from a wide range of devices with serial interface (e.g., scales, instrumentation, gauges, analyzers, etc.).

## Designed Specifically to Interface with TrakSYS, Our Smart Devices Also Leverage Other Aspects of the TrakSYS MOM Platform

### 1. Single Instance Multi-Site (SIMS)

Wish to manage data from across several factories within a single instance of TrakSYS? Done! The Smart Devices may be used with TrakSYS Single Instance Multi-Site deployment architecture to bring you even more scalability, convenience, and value.

## 2. KPIs

TrakSYS enabled Smart Devices can interface with an array of data sources, with proper contextualization, to manage your key performance indicators (KPIs) in real-time. Go beyond simply capturing data and get into deeper analysis, reporting, and decision support.

## 3. Alarms and Notifications

Our Smart Devices can be used for condition-based monitoring to create actionable and timely alerts and notifications targeted at the right personnel.

## 4. Task Management

Trigger defined tasks based on monitored conditions, schedules, roles, and responsibilities. Ensure completion of critical assignments with a clear escalation workflow.

## 5. Quality

Manage quality-related activities based on in-process information, captured date, and observed attributes to ensure consistent adherence to standards and targets.

## 6. Maintenance

Manage quality-related activities based on in-process information, captured date, and observed attributes to ensure consistent adherence to standards and targets.

## 7. Historian and Reporting

Capture time-series data from multiple sources throughout your factories, and then leverage TrakSYS for deeper insight through analysis and reporting.

## 8. Collaboration

In order to improve your manufacturing operations, you have to have accurate, timely, and consistent information. The TrakSYS enabled Smart Devices will make this possible. Once the data has been collected, sorted, and contextualized, TrakSYS powers cross-functional collaboration for effective resolution of problems and helps to promote on-going innovation for continuous improvement.

**The TrakSYS Smart Devices are designed to make managing your operations as simple as possible by providing the needed data.**