

# The Perfect Finish with Trendview Recorders and TrendManager Pro

## Application Note

**Major auto manufacturer uses Honeywell's technology to ensure a consistent process across batches.**

### Background

The automotive market is highly competitive, and customers demand consistent quality. That includes not just the mechanical and electrical systems but also the internal and external finish that form a crucial part of the car's appeal.

For automotive manufacturers the external finish is achieved not just through controlled application of the paint, but also a carefully designed drying process. The wet paint is dried in stages, each at a precise temperature, pressure, level and position to ensure a consistent look and quality.

### Challenge

One top automotive manufacturer needed to monitor this process and record these parameters across lines. The data would ensure adherence to the design, and provide records of batches, for both audits and analysis.

To ensure this and achieve, monitor and maintain the required quality for its bodywork, it turned to Honeywell.

### Solution

Honeywell's solution combined its [MiniTrend](#) electronic data recorders with the [TrendManager Pro Software Suite](#)® for review and analysis. Recorders across lines and at different stages of the drying process are connect to a Master recorder with an external timer ensuring synchronized time stamps.

Data is stored on the internal recorder memory and exported using FTP-transfer to the server. TrendManager Pro Software Suite can then be used for both monitoring and analysis. Data can also be viewed locally on each recorder using the 5.7" high resolution digital TFT display. A Temperature Uniformity Summary screen provides easy monitoring to identify conformity with design temperatures.

The recorders enable monitoring and recording for overshoot, min-max, temperature differences and time duration for up to six survey set points.



They also support up to 16 analog inputs that handle T/C, RTD, Linear and 10Ω/53Ω input sensor types, allowing direct connection of the sensor to the recorder. Data can be stored securely on SD card or USB memory sticks.

TrendManager ProSoftware Suite, meanwhile, provides the manufacturer with tools for graphing, analysis and archiving data. Using the software, recorder data is centralized and shared with quality teams and others. The software also automated provides reporting tools, simplifying audits.

**Nadcap and AMS2750E**

The Minitrend recorders were chosen because they meet the highest standards for data capture and storage in continuous and batch processes. Outside the automotive sector, the recorders are frequently found in aerospace applications, where they can be used to show compliance with Aerospace Material Specification AMS2750 and accreditation through Nadcap (the National Aerospace and Defense Contractors Accreditation Program).

**Benefits**

Honeywell’s Trendview recorders provide flexibility, security, accuracy and networking

capability to ensure a consistent process across batches, whether for regulatory compliance or quality control.

**DR Graphic**

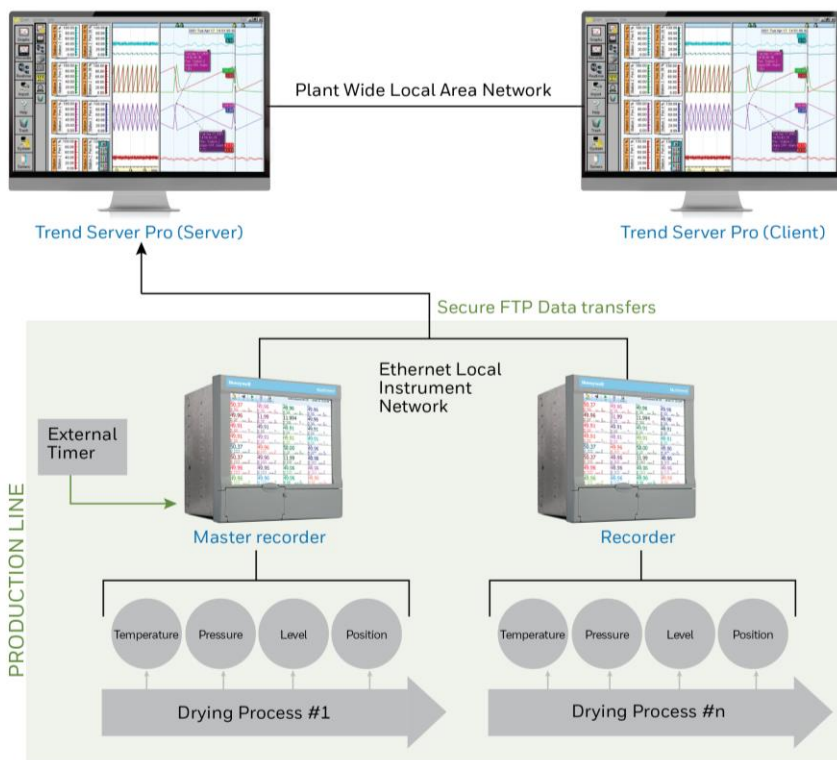


*Honeywell’s Minitrend electronic data recorder represents the latest in recording technology and provides the ability to capture continuous and batch data electronically, making the analysis of data easier, faster and more reliable.*

*TrendManager Software Suite is a package of tools for graphing continuous and batch data, analyzing and archiving data, configuring the paperless recorder products, setting up scheduled uploads of recorder data or*

When connected to the TrendManager Pro software, they enable users across the enterprise to reliably monitor and record key process parameters. They enable real-time monitoring of adherence to requirements and capture data for later analysis to troubleshoot issues or drive continuous improvement.

Meeting the highest standards for process monitoring and recording, Honeywell’s solutions reduce the burden of keeping compliant with regulatory and internal standards.



### **For More Information**

To learn more about Honeywell's OEM Program, please visit [www.honeywellprocess.com/OEM](http://www.honeywellprocess.com/OEM).

To learn more about Honeywell's solutions contact your Honeywell Account Manager, Distributor or System Integrator.

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