Advanced controls and instrumentation apply state-of-the-art technology that enhances your capabilities and makes running and maintaining your equipment easier and more cost effective. From operation flexibility to measurement and results analysis, advanced controls deliver the ideal process measurement, operation and, ultimately, performance.

**Hygrometer Upgrades – for ultimate moisture monitoring**

Ipsen’s Hygrometer Upgrade is designed to give users the ability to monitor the moisture content in the process gas. Its rugged design provides the flexibility needed to operate and monitor under many conditions. The hygrometer is mounted in an enclosure near the furnace backfill inlet to ensure the system receives an accurate sample.

Features of Ipsen’s Hygrometer Upgrade include:

- Durable, panel-mounted hygrometer
- Easy-to-read digital display
- Comprehensive alarm with up to three alarm set points
- Precise open sensor alarm
- NIST calibration certification

**Vacuum Gauge Upgrade – for repeatable results, every time**

Ipsen’s Vacuum Gauge Upgrade provides customers a high-quality vacuum gauge designed for accurate and repeatable measurement. As the demand for more stringent industry specifications grows, heat treaters must adjust in order to stay compliant, but, in general, the trend towards more precise measurement and control is increasing even outside these specifications and regulations.

The Vacuum Gauge Upgrade delivers many features that benefit the end user, including:

- Modular design for future expansion
- Easy integration into existing control system
- NIST calibration certification
- Pre-configured settings for accuracy
Instrumentation Upgrades

Electronic Data Recorder Upgrade – for enhanced data flexibility

Ipsen’s Electronic Data Recorder Upgrade is a fully equipped digital recorder package that provides the end user with flexibility and scalability while recording the most critical process data. This upgrade is capable of meeting the requirements for several industry specifications, including Nadcap and AMS 2750E.

The Digital Recorder Upgrade has many features that benefit the end user, including:

- Real-time data acquisition
- Secure multi-user access
- Extensive data archive, graphing and import/export data tools
- Superior FTP and web browser access
- Dynamic display capabilities
- Pre-configured settings for accuracy

Operator Interface Upgrade – for expanded capabilities

Our Operator Interface Upgrade allows for optimum, intuitive control of your furnace system. A new operator interface can provide the reliability, security and repeatability required to run any complex vacuum process.

Ipsen’s Operator Interface Upgrade expands your capabilities with enhanced features, including:

- Industrial touch-screen PC with data collection and trending software
- Increased process control
- Secure multi-user access
- Multiple screen sizes
- Pre-configured prior to shipment

Learn more about Ipsen at www.IpsenUSA.com or contact Ipsen’s Engineered Components Group at EngineeredComponents@IpsenUSA.com for more information.