

# System Enhancements, Retrofits and Refurbishment

## ***GN Technology Retrofit for the 1812C.***

### **Base Technology Retrofit**

#### **Deliverables**

A heated main detector, one electronics assembly including a new DSP and spectra acquisition computer, one Operator Console computer with Windows 2000 operating system and Base Coal Analyzer software, Object Linking and Embedding for Process Control (OPC) based communication hardware and software.

#### **What the Base Technology Retrofit replaces**

The detector cooling system, the detector and electronics panel.

#### **Main Advantages**

Elimination of liquid-based detectors temperature control circuit. Elimination of air conditioning for electronics. Elimination of analog electronics. Reduction of parts and third party software. Easier adaptation and configuration of OPC-based communication links. Easier-to-use process control software. Improved control performance.

The GN Technology Retrofit is the **best alternative to buying an entire new system.**

### **Steps to Retrofit**

The technology retrofit of your 1812C can be implemented in one single step, replacing all hardware and software at once, or can be implemented in two successive steps, first retrofitting the computing hardware and software, and then retrofitting the detection sub-system and supporting electronics.

All 1812C's can be retrofitted to the GN technology. However, due to customization of some of the system on site, a Site Application Review may be required before an order is accepted.

Please see the applicable "Start-up Services and Inspection for Coal Systems and Applications" specification sheet, and in particular the Site Application Review, the System Start-up and System Commissioning services.

### **Deliverable Options**

#### **Remote OpCon Workstation**

A remote workstation is available for any application and any type of communication link between the Main OpCon and the Remote OpCon workstations.

#### **Credit Options**

#### **Salvage Rights**

A credit against the right of dispose of any of the replaced parts is considered with all quotations.

#### **Refurbished Detectors**

Instead of a new detector, a refurbished detector of performance and warranty equivalent to new a detector can be delivered and a credit applied to the quotation.

### **On-site Retrofit Implementation**

The on-site implementation of the GN Technology Retrofit will require the 1812C belt to be stopped and secured – no flow through the 1812C can be allowed. The typical on-site implementation is finalized within 2 to 4 working days.

#### **Notes:**

- All products with prices indicated as "typical" will be quoted specifically prior to purchase.

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