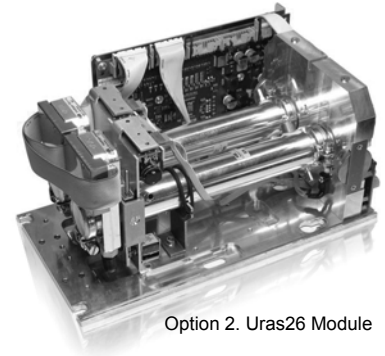


Description: ABB Advance Optima – AO2000 Upgrade

ABB installed base data indicates Advance Optima / AO2000 Continuous Gas Analyzers (CGA) are currently utilized in your process.

Note: Upgrade options, based on analyzer type and configuration, are available to enable AO2000 analyzers to include CO₂ Green House Gas (GHG) measurement and reporting. The cost effective upgrades use high quality ABB components, provide easy integration into existing CEMS, require no additional training, and achieve complete EPA compliance for CO₂ monitoring.



Option 2. Uras26 Module

Option 1. Add CO₂ measurement to existing Uras14 Infrared Photometers within the AO2000**Option 2. Replace Uras14 Module with a new Uras26 Infrared Photometer for CO, SO₂, CO₂ measurement****Option 3. Expand existing AO2000 with a second Uras26 for CO₂, retain Uras14 for current measurements****Option 4. Integrate a standalone EasyLine or Advanced Optima analyzer into CEMS DAS to measure CO₂****Features and Benefits**

- Integrates easily into existing CEMS
- Achieves EPA Compliance for CO₂ Monitoring
- Multiple upgrade options
- No additional training required
- High quality ABB components



Option 3. Uras26 Infrared Photometer



Option 4. EasyLine EL3000 Series

To order an upgrade, please complete the order form on the reverse of this sheet

For additional information, to inquire about specific or unique applications, or schedule ABB service, contact the ABB North America Customer Service Center.

Order Form

ABB Advance Optima AO2000 Series Continuous Gas Analyzer– CO₂ Green House Gas Monitoring Upgrade

Please complete the following information, complete a separate sheet for each analyzer

Company Information

COMPANY NAME		
SITE NAME		
SITE LOCATION		
ADDRESS		
CITY	STATE	ZIP

Maintenance Personnel

NAME
JOB TITLE
TELEPHONE NUMBER
E-MAIL

Check Option box and answer associated questions below. Complete a separate sheet for each analyzer.

Option 1 Option 2 Option 3 Option 4

Complete for Options 1, 2:

1. What are the ranges of the components currently being measured by the existing Uras analyzer? _____

Complete for Options 1, 2, 3:

1. What components are currently being measured in the entire system? (Magnos, Limas, Uras, etc) _____
2. What components are currently being measured by the existing Uras analyzer? _____
3. Are you using calibration cells or calibration gas? _____
4. What is the serial number (F-No.) of the existing Uras analyzer? _____
5. Do you have an 'open' Analog Output that could be used on the existing system? _____
6. How many existing modules (AO, DO, MODBUS, etc) do you currently have? _____
7. How many existing boards (AO & DO) do you currently have? _____
8. What is the software revision level of the Syscon board? _____
9. What is the software revision level of each analyzer module? _____

Option 4 Information – Stand alone Easyline

For Option 4, requirements include supplying power, connecting sample line, and connecting the Analog Output to DCS system.

As an alternative to the questions above, photographs of the following may be submitted:

1. Overview of the general analyzer system configuration
2. Close-up of rating/nameplate with serial number
3. Existing modules, I/O cards
4. Screen capture of diagnostic portion of menu tree list of modules, I/O cards, etc. from diagnostic portion of workstation menu tree (list of modules and I/O cards)
5. Front control panel of HMI

If these analyzers are not installed at this site, please complete the form; place a check mark in the box and fax.

Order Submittal

To order a CO₂ Green House Gas Monitoring Upgrade and schedule installation, complete order form and return or contact ABB Customer Service via the following:

Telephone: 1-800 HELP 365, Option 3 for analytics, then Option 1 for service

Fax: Send this completed form to: 713 821-3523

E-mail: Send this completed form to NAservice_info@us.abb.com

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