



ACIS

ANALYSIS CONTROLLED INJECTION SYSTEM.

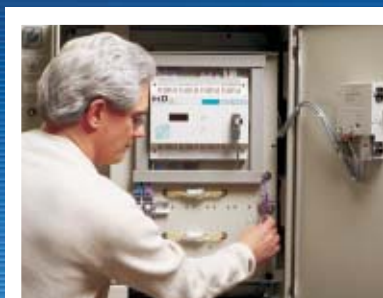


» Urea/Ammonia Injector
Developed For SCR Systems

TAKE CONTROL OF SCR.

*The Analysis Controlled Injection System.
Only From MIRATECH SCR.*

Running a Selective Catalytic Reduction system at peak efficiency can be a complicated, demanding job. But it's a job that has to be done right if you want to get the most out of your SCR system at least cost, and steer clear of non-compliance.



» ACIS
Analysis Controlled Injection System

Now, a new, automated solution makes SCR control a whole lot easier: **ACIS – the Analysis-Controlled Injection System**, brought to you by MIRATECH SCR. With ACIS, one state-of-the-art system integrates monitoring and control functions – and payback starts the minute you switch ACIS on.

The key? ACIS continuously monitors actual post-catalyst exhaust, and automatically adjusts reactant injection accordingly, in real time. That keeps actual NOx emission levels within compliance, whether you're running a base-load or load-following application.

The payoff? Continuous, on-going compliance, guaranteed – with maximum efficiency in reactant use. Plus, with features like remote website monitoring and troubleshooting, ACIS cuts man-hours needed for SCR, and helps your personnel work more efficiently and reliably.

CONTACT MIRATECH.

Find out more about ACIS and other advanced, cost-effective MIRATECH SCR Emissions Solutions. Give us a call or visit our website: www.miratechcorp.com

WHY MIRATECH?

- » Advanced Technology
- » Cost-Effective, Comprehensive Solutions
- » Unsurpassed Experience & Expertise
- » Fast, Responsive, Customer-Focused Service & Support
 - Prevent Non-Compliance Fines
 - Improve Engine & Catalyst Performance
 - Cut Maintenance Costs
 - Maximize Catalyst Life

EMISSIONS SOLUTIONS

- » Non-Selective Catalytic Reduction
 - 3-Way Catalyst Systems
 - Oxidation Catalysts
 - HAPs Catalysts
 - Diesel Oxidation Catalysts
- » Catalyst Housings
 - MN/MBA
 - IQ
- » Catalyst-Silencer Combos
 - QCC/QCH
 - RCS/RHS
- » Active Regeneration Soot Traps
- » SCR Catalyst Systems
- » NX Analyzers
- » Analysis-Controlled Injection Systems
- » Air-Fuel Ratio Control Systems
- » Service Contracts
- » Technical Support & Training
- » MIRATECH Catalyst Services
- » Replacement Parts

ACIS

ANALYSIS CONTROLLED INJECTION SYSTEM.



FAILSAFE COMPLIANCE 24-7-365.

Count on the Analysis Controlled Injection System to make sure your lean-burning engine is fully NOx compliant all the time. Rather than using base load or engine speed set points or other fixed criteria to govern your SCR system, ACIS continuously monitors actual post-catalyst exhaust, and adjusts reactant injection accordingly – in real time. No load curve or signal is required. Your system is more responsive, performs more efficiently – and on-going compliance is assured, in any and all real-world operating conditions.

ACIS TRUMPS FINES.

MIRATECH ACIS measures actual NO when and where you need monitoring most: post-catalyst, every minute, every day. That way, what actually comes out of the exhaust pipe will always be within compliance – and you avoid non-compliance fines.

»SCR: ON-SITE



SAVE ON REACTANT, TOO.

With ACIS, injection rates are based on actual process conditions, not preset values that may not match changing engine load or other operational factors. At all times, you use exactly the right amounts of reactant to achieve compliance – no less and no more. With ACIS, you don't waste a drop of the reactant you've paid for. So you save money each and every time you buy ammonia or urea.

LESS LABOR. MORE VALUE.

ACIS takes labor and hassles out of SCR – automatically maximizing efficiency. That way, your employees can focus on what matters most: running your operation. Easy to install and quick to set up, ACIS even saves you time, trouble and dollars on the front-end.

EMISSIONS SOLUTIONS: CONTACT MIRATECH.

For more than a decade, MIRATECH has been at the forefront in helping industries handle emissions standards. Whatever your emission control needs may be, count on MIRATECH SCR for solutions. Just give us a call – or visit our website: www.miratechcorp.com. Ask for your FREE subscription to our useful, fact-filled electronic newsletter, *THE EMISSIONS MONITOR*.

REMOTE MONITORING & TROUBLESHOOTING.

You can monitor and troubleshoot ACIS and your SCR system from any location you choose – on-site or off-site, virtually anywhere in the world – via a secure website. Plus, ACIS opens secure access from any location to rich data for Continuous Assurance Monitoring (CAM) or other uses.

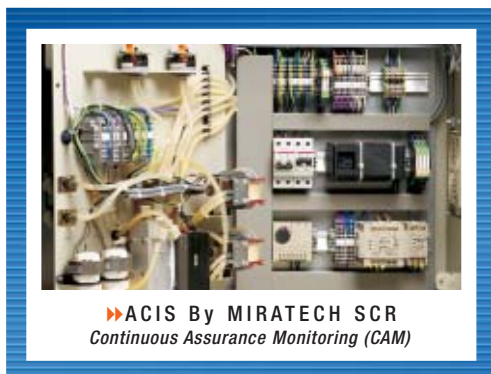
WORLD-CLASS SOLUTIONS.

ACIS was developed by Swiss-based HUG Engineering, the acknowledged world leader in advanced SCR

technology. As HUG's sole North American partner, we can put the world's most advanced solutions to work for our customers, backed by expert MIRATECH engineering as well as technical support close to home. And we back ACIS – and every other product we ship – with

service and support that set standards for the industry. If there's a question, we'll answer it. If there's a problem, we'll fix it – whatever it takes. No *ifs*, *ands*, or *buts*.

MIRATECH also offers a full spectrum of ongoing service contracts, on-site technical support and training programs designed to take emission control issues off your busy agenda.



»ACIS By MIRATECH SCR
Continuous Assurance Monitoring (CAM)

WHY MIRATECH ACIS?

Integrated Solution: SCR Exhaust Gas Analysis & Injector Control In One Package

- » Continuously Monitors Actual, Post-Catalyst Exhaust & Adjusts Reactant Injection Accordingly
- » Continuous Compliance Assured: 24-7-365
- » Maximum Efficiency
- » Cuts Costs On Reactant & Labor

APPLICATIONS

- » SCR Systems For Lean-Burn Engines, Natural Gas, LPG, Diesel, Dual-Fuel
 - Power Generation
 - Chillers
 - Gas Compression
 - Air Compression
 - Water Pumps & Irrigation
 - Quick, Easy Installation & Setup

FEATURES & BENEFITS

- » Automatically Monitors:
 - Exhaust Gas Temperature
 - Post-Catalyst NO
 - Operating Hours
 - Reactant Injection Flow Rate
- » Automatically Adjusts Reactant Injection Based On Actual Exhaust Gas NO Levels
- » Remote Monitoring & Troubleshooting Via Website
- » Standard ACIS Components
 - Main Control Panel
 - Alarms
 - Booster Pump Skid Supplies Constant 1-Bar Reactant Pressure To The Dosing Valve
 - Dosing Control Box
 - Injector
- » No Load Curve Or Signal Required
- » Available In Dosing Rate Ranges From 3 – 115 L/HR
- » ACIS Options
 - Post-Catalyst Carbon Monoxide (CO) Monitoring
 - PE Differential Converter Pressure Switch
 - USM US Modem
 - ACU Air Conditioning Unit
 - AN4 Analog Output

