



# Catalyst Applications

The Definitive Solution for Catalytic Processes & Research

## EcoCat-P

*From ESS Ltd*

EcoCat-P from ESS sets the benchmark in real-time monitoring of Catalyst process and research applications. Specifically designed for Catalyst applications, this system benefits from years of research and listening to customer requirements.

EcoCat-P offers the ultimate in performance within a compact, portable package, allowing the system to be positioned next to the reactor, while the flexibility of Ethernet connection gives the user the ability to operate the system over a local area connection (LAN) or wirelessly.

Due to the ultra-fast response time, combined with low detection levels, the complete process is measured, ensuring that no events are missed, offering a significant improvement over other techniques as improved control can be immediately implemented, thus maximising Catalyst efficiency and improving yield.



EcoCat-P instruments can provide two types of analysis and control, these are direct feedback monitoring and control of Gas Phase Composition or a calibrated continuous record of the entire gas phase.

Supplied with two inlets as standard, both the inlet and outlet of the reactor can be monitored, ensuring that maximum efficiency is achieved, obviating slow GC analysis with manual control.

Equipped with a very high sensitivity dual detector Quadrupole Mass Spectrometer (QMS), EcoCat-P offers a broad dynamic range, with detection capability from low ppb / ppm right up to high percentage levels.

With full software control of the vacuum system, all operating parameters can be adjusted directly from the PC.

### ESS Ltd

GeneSys House | Denton Drive | Northwich | Cheshire | CW9 7LU UK

Tel: +44 (0)1606 49400 | Fax: +44 (0)1606 330937

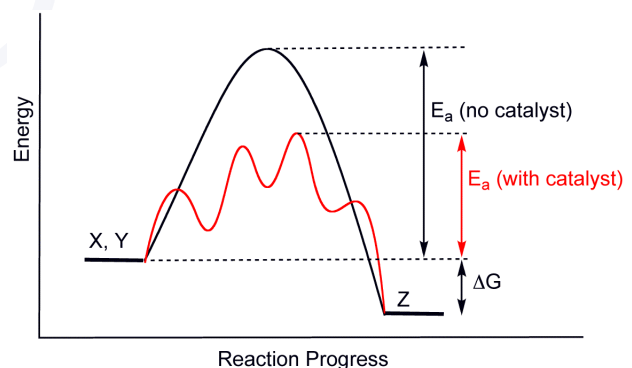
Email: [sales@essco.com](mailto:sales@essco.com)

Web: [www.essco.com](http://www.essco.com)

## EcoCat-P

This system has been designed specifically for Catalyst applications, and users benefit from:

- Two Inlets as standard with automated switch over - both inlet and outlet from the reactor can be monitored, giving better control of the process
- User defined sampling time on each inlet - allowing full flexibility in process control
- Individual data storage files for each inlet - date and stamped data on each inlet gives excellent QA records
- Simultaneous monitoring of Catalyst temperature
- Ability to send data 'live' into other programs - data can be immediately exported into other formats e.g. Excel
- Fast response time - with a response time of 120ms, true real time monitoring of the process is achieved
- Oil free vacuum system - Hydrocarbon free system ensures no interferences, with minimal maintenance required
- Data stored in individual files for each inlet
- Automated, unattended operation
- Full plant interfacing option



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Tel: +44 (0)1606 49400 | Fax: +44 (0)1606 330937  
Email: [sales@essco.com](mailto:sales@essco.com)  
Web: [www.essco.com](http://www.essco.com)