



Environmental Application

Compact, Real-time Gas Analysis for Environmental Applications

EcoSys-P

From ESS Ltd

The latest model of EcoSys-P builds on its already proven design and capability. Now with significant improvements and additions over the previous model, EcoSys-P raises the benchmark in portable instrumentation to an unsurpassed level.

Ultimate Flexibility - these portable systems now benefit from being equipped with BOTH a membrane and capillary inlet arrangement. The membrane inlet is equipped with an active circulation pump for use in ambient applications and offers low PPB level detection for most VOC's.

Ultra fast analysis with high sensitivity

With use of the optional High volume sampling pump, analysis gas can be drawn from up to 800m away. With a response time of 1s, this inlet is suitable for real-time analysis. The capillary inlet is an ultra-fast inlet with a response time of a staggering 100mS. This inlet gives true real time measurement, and is suitable for sampling from up to 2m away.

A new design of ion source improves the signal to background ratio significantly, thus giving rise to lower background levels and greater sensitivity.

State of the art electronics now incorporate an Ethernet connection to the laptop, meaning that EcoSys-P can be either connected to a network or operated wirelessly using the wireless option.



As always, EcoSys-P is constructed to ESS ultra high levels of build quality ensuring the very best in portable instrumentation is supplied to you.

Typical Application Areas Include:

- Hazardous area monitoring
- Environmental Monitoring
- VOC's
- Fugitive Emissions
- Duct and Stack Measurements
- Gas Scrubber sampling

Plus many other application areas

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

Web: www.essco.com



EcoSys-P

EcoSys-P is capable of sampling virtually ANY gas species up to 200 (300 optional) amu over a very wide range of concentrations. In its standard configuration, with the EcoSys-P you can:

- Monitor up to 64 sample species in real time, either quantitatively or qualitatively
- Generate time and date stamped results
- Identify unknowns
- Operate the system from a remote location
- Set Alarm levels on any channel
- Send data to other devices by Analogue outputs (4)
- Generate ASCII files for incorporation into other programs (e.g. Microsoft Excel)
- Monitor to PPB levels in real time

Powerful Software Package

The system comes with a very powerful, yet easy to use software package, preloaded onto a laptop. Offering fully quantitative analysis of up to 64 channels in real time, EcoSys can now be operated over a network, or controlled via the internet for remote, unmanned operation, servicing, customer support and two way file transfer.

For longer runs, scans can be set by making use of a pre-set timer (user definable), and processes such as zero, calibration and measurement can be fully automated to simplify operation.

A powerful data review package is also included, which allows for quick, easy conversion into an ASCII format. 3D review of analogue scans is also included.

Areas of particular interest can be studied in further detail by making use of the magnify / cursor option.

Options and Accessories for the EcoSys-P

EcoSys-P is designed to be fully flexible and suitable for a wide range of applications. With this in mind, ESS has several options available, such as:

- NIST Library filemaker - this option collects, collates, sorts data and converts into a format that the NIST library of 200,000 compounds can interpret and use to identify unknown components
- Water / Liquid Probe (LiquiTorr) for aqueous samples
- Field Power Pack - provides remote power for up to 8 hours operation
- Vehicle Adapter kit- allows either Field Power Pack to be charged or provide power to the EcoSys-P
- Wireless Modem option - EcoSys-P can be driven from a remote location from anywhere within the wireless network range.
- GPS - Location can be transmitted to EcoSys-P by Analogue Input
- Ultratrace-PPT - this is the addition of a Thermal desorber which brings the detection level down to PART PER TRILLION (PPT) levels for VOC's

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