



EGA30

CO₂ and Humidity Monitor



Wall mounted CO₂ Infra-Red Gas Analyser with advanced sensors for water vapour measurement

Ideal for long term, growth environment monitoring

ADC BioScientific Ltd: Leaders in gas analysis

The EGA30 is a robust, single-channel Infra-Red Gas Analyser produced by leaders in the field of gas analysis, with over 40 years of experience in designing systems which are used worldwide by researchers, growers and analytical laboratories.

Designed for continuous, long-term monitoring: long life sample pump and reliable components. The EGA30 is mains operated with an internal battery to provide 5 hours of emergency power.

Data storage and access: Supplied with a 2Gb, SD memory card capable of storing hundreds of thousands of data sets in (.csw) format, allowing files to be saved to Excel Workbooks.



A protective, hinged front panel prevents the entry of dirt, dust and water. It also deters any alterations to the keypad or removal of the memory card whilst measurements are being taken.

Applications Include:

Greenhouse monitoring and control
Growth chamber monitoring and control
Indoor air quality monitoring

Atmospheric air monitoring
Process control

Technical Specification

CO ₂ :	0-2000ppm as standard
Resolution:	1ppm
H ₂ O:	0-100% RH
Resolution:	1% RH
Pump Flow Maximum:	At least 500cc/min
Flowmeter:	0-500cc/min
Internal Backup Battery:	12V Lead Acid, 2.1Ahr
DC Voltage in:	Min. 11.5V Max. 17.5V
DC Current in:	1A Max. Protected with replaceable fuse
Analogue input channel resolution:	12 bit. Accuracy +/- 1.5%
Atmospheric Pressure Range:	600-1100 mbar.
IP Rating:	42
Dimensions:	Width 287mm x Depth 191mm x Height 168mm

Assured accuracy and stability

The integral soda lime column automatically 'zero's the IRGA, ensuring long-term stability of gas calibration. The gold-plated IRGA is thermostatically controlled above ambient levels, eliminating any gas condensation within the unit and so ensuring stability over a wide range of operating temperatures. All readings are automatically compensated for changes in atmospheric pressure.

Intuitive

The large, LED backlit LCD display presents you with main menu screens, clearly showing: gas readings, flow, power supply status, date and time. Configuration and control are by simple to use, menu driven software. Data storage can be initiated by programmed, timed intervals or triggered by relays, analogue outputs or by a high signal on the serial port.

Rapid and easy installation

The EGA30 can be installed and monitoring in minutes. All electrical connections can be pre-wired to a multiway plug and connected into a socket on the rear panel. The power supply is also connected into the rear panel and the EGA30 can then be mounted with a two part bracket, screwed into the wall.



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