

# Galaxy<sup>®</sup> Gas Analyzers for CO<sub>2</sub> Incubators

## Accurate Measurement and Verification of Key Parameters in the Palm of Your Hand

Galaxy Gas Analyzers are designed to accurately and reliably monitor key environmental levels within incubator chambers. These user-friendly, compact instruments enable quick and easy verification of CO<sub>2</sub>, O<sub>2</sub> and RH levels with optional dual channel temperature measurement. Our newest models have been developed to incorporate the latest technologies and specification requirements, providing the user with a fast, simple-to-use and accurate method of evaluating key environmental conditions.



Actual Size of Unit is 165 x 100 x 55mm  
(6.5 x 3.9 x 2.2")

### Three Models

- CO<sub>2</sub> (0 - 20%) Analyzer
- CO<sub>2</sub> (0 - 20%) and O<sub>2</sub> (0 - 100%) Analyzer
- CO<sub>2</sub> (0 - 20%), O<sub>2</sub> (0 - 100%) and RH (0 - 100%) Analyzer

### Features

- CO<sub>2</sub> measurement range 0 - 20%
- Highly accurate, reliable performance
- Integral hydrophobic sample filter
- Simple calibration procedure
- On-board data storage – up to 1,000 readings
- Large, well-lit and easy-to-read display
- Built-in stand

### Options

- Optional temperature probes can be added to any model to provide up to two independent temperature measurements 0 - 50°C
- PC-based external storage and data management software

*Galaxy... meeting your cell culture demands today, and into the future.*

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## Product Specifications

Gas Ranges		
Gases Measured	CO <sub>2</sub>	By custom dual wavelength infra-red cell reference channel
	O <sub>2</sub> (Optional)	By internal electrochemical cell
Oxygen Cell Lifetime	Approximately 3 years in air	
Range	CO <sub>2</sub>	0 - 20%
	O <sub>2</sub>	0 - 100%
Measurement Accuracy	CO <sub>2</sub>	Accuracy ± (1% measuring range +2% of reading) at reference points Temperature dependence ± 0.2% reading °C (typical at 5% CO <sub>2</sub> ) Pressure dependence ± 0.02% of reading/hPa (typical at 5% CO <sub>2</sub> )
	O <sub>2</sub>	± 1.0% measuring range at constant temperature and pressure ± 2.0% measuring range over operating temperature range
Response Time T <sup>90</sup>	CO <sub>2</sub>	≤ 20 seconds
	O <sub>2</sub>	≤ 60 seconds

Facilities	
Temperature (Optional)	x2 using optional probes 0°C to +50°C
Temperature Accuracy (Typical)	± 0.2°C from 32 to 44 °C, ± 0.5°C over the rest of the range
Barometric Pressure	800 - 1200 mbar
RH Measurement (Optional)	RH Probe 0 - 100% RH non-condensing
RH Accuracy	± 1.5% RH across the range
Visual and Audible Alarm	User-selectable CO <sub>2</sub> and O <sub>2</sub> alarm levels
Communications	USB type B mini-connector, HID device class
Data Storage	1000 readings

Environmental Conditions	
Operating Temperature Range	5°C - 40°C
Relative Humidity	0 - 95% non-condensing (RH Probe 0 - 100% non-condensing)
Barometric Pressure	± 200 mbar from calibration pressure

Physical	
Weight	495 grams (1 lb, 1.5 oz)
Size (Length x Width x Depth)	165mm x 100mm x 55 mm (6.5 x 3.9 x 2.2")

## Ordering Information

Analyzer Models & Options	Catalog Number
Galaxy CO <sub>2</sub> Analyzer	P0628-6150
Galaxy CO <sub>2</sub> and O <sub>2</sub> Analyzer	P0628-6831
Galaxy CO <sub>2</sub> , O <sub>2</sub> and RH Analyzer	P0628-7890

Calibration Gas & Analyzer Accessories	Catalog Number
Temperature probe 5mm tip <sup>o</sup>	P0628-7881
Temperature probe 100mm tip <sup>o</sup>	P0628-7880
Calibration Gas 5%, 20 liter disposable canister	P0628-7211
Control valve & flow indicator for 20 liter disposable canister	P0628-6061
Calibration Gas 5%, 105 liter disposable canister	P0628-7210
0.3 liter/min flow regulator w/pressure gauge†	P0628-7221
Spare inlet filters (pack of 5)	P0628-7660
Soda lime filter kit	P0628-7860
Spare sample tube and filter	P0628-7870
RH probe, direct fix to Analyzer (for IAQ)*	P0628-7830
RH probe c/w 1m flying lead to connect to Analyzer*	P0628-7820
Regulator and tubing for calibration gas	P0628-7850
Additional hard carry case	P0628-7800
PC data management software	P0628-7840
USB lead for Analyzer	P0628-7810
Mains charger	P0628-7900

<sup>o</sup> Up to two probes can be fitted to all analyzers, providing two independent temperature measurements.

† For reusable 105 liter cylinder.

\* Only suitable for use with Analyzers originally featuring this function.