

ADC BioScientific Ltd

LAMBDA T CO₂ MONITOR/CONTROLLER

Continuous CO₂ monitor and controller
High performance NDIR optical bench
Easy maintenance
Integral sample pump
Two relay trip points
Digital display
Temperature corrected



Lambda T is a high accuracy CO₂ monitor employing a novel twin wavelength, non-dispersive, infra-red, optical technique. This highly stable analysis allows the **Lambda T** to be used for unattended measurement and control of Carbon dioxide in greenhouses, growth cabinets and any application where elevated levels of the gas are required.

The **Lambda T** uses a new, two filter, matched twin element detection system. This technique has many benefits over traditional single wavelength infra-red monitors.

- Gas specific, no cross sensitivity with other gasses.
- Unrivalled long term measurement stability.
- Reliable and robust.
- No interaction with the gas being measured and so do not consume anything from the sample.
- With an onboard sample pump, **Lambda T** is ready to be wall or front panel mounted. Operating on 88-138VAC or 172-276VAC, **Lambda T** can be online and monitoring in minutes.
- The **Lambda T** is easily maintained requiring only a few minutes to replace the hydrophobic filter and a simple calibration procedure to check the accuracy, typically once a year.

Range:	0-2000ppm CO ₂ Or 0-100% CO ₂	Alarms:	Two user-configurable single pole trip points over the full scale range with LED display indicator.
Accuracy:	+/- 2% of FSD	Outputs:	4-20mA or 0-20mA Linear or non Linear Voltage free changeover relay contacts for both alarms. (8A 240V AC non-inductive).
Stability:	+/- 2% of FSD over 12 months	Operating temperature Range:	0 to 40°C
Repeatability:	+/- 0.3% of FSD at zero	Gas connections:	Push-on connectors for 4mm bore tubing.
Response times Electrical: 1second Gas, from Inlet: Typically < 30 seconds to 90% of signal		Enclosure:	IP54 rated.
Warm-up time:	Operational 3 min, full specification 30mins	Power requirements:	172 to 276VAC or 88 to 138VAC switchable 13Watts typical
Pump:	Mounted internally 1Lmin ⁻¹ 30Meter maximum sample distance	Dimensions:	267mm x 258mm x 148mm
Display:	Digital readout, 4 digit, 7 segment, high contrast LCD	Weight:	2.5Kg
Front panel indicators:	Gas reading Flow fail warning Alarm trip indicators Fault indicator.		