

CERTIFICATE OF COMPLIANCE



Los Gatos Research
67 East Evelyn Ave., Suite 3
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USA

Declares that the following instrument:

Product Name:	Greenhouse Gas Analyzer (GGA/FGGA)
Model Number:	911-0010-0002
Serial Number:	13-0159

Has been extensively tested and shown to meet all of the specifications listed in this document and is warranted for 1 year if used according to the instructions provided in the User's Manual.

Greenhouse Gas Analyzer Specifications:

Total Uncertainty (without calibration):	<1% of reading (Benchtop / Rackmount) <0.25% of reading (Enhanced Performance Package)
Maximum Drift (Enhanced Performance Model) (15 min. average at STP in 24 hrs.)	CH ₄ : 0.8 ppb CO ₂ : 120 ppb H ₂ O: 100 ppm or 1% of reading (whichever is greater)
Measurement Range (meets all specs):	CH ₄ : 0.1 - 25 ppm CO ₂ : 200 - 4000 ppm H ₂ O: 7000 - 70000 ppm
Operational Range (external cal. may be required):	CH ₄ : 0 - 1000 ppm CO ₂ : 0 - 20000 ppm H ₂ O: 0 - 70000 ppm
Repeatability / Precision (1-sigma):	CH ₄ : 1 ppb (5 sec), 0.3 ppb (100 sec) CO ₂ : 150 ppb (5 sec), 50 ppb (100 sec) H ₂ O: 100 ppm (5 sec), 30 ppm (100 sec)
Response Time (flow time through meas. cell):	10 s (with standard internal pump), <0.1 s (with optional external dry scroll vacuum pump)
Outputs:	Digital (RS-232), Analog, Ethernet, USB
Data Storage:	Internal Hard Disk Drive (optional Solid State Drive)
Sample Temperature:	0 - 50 °C (Ambient Humidity < 98% RH non-condensing)
Operating Temperature:	5 - 45 °C (Benchtop / Rackmount Package) 0 - 45 °C (Enhanced Performance Package)
Inlet / Outlet Fittings:	¼", ⅜", and ½" Swagelok®
Power Requirements:	115/230 VAC; 50/60 Hz, 100 W (Standard Package), 300 W (Enhanced Perf.)
Dimensions:	10" H x 38" W x 14" D (Benchtop) 8.75" H x 19" W x 24" D (Rackmount) 14" H x 19" W x 24" D (Enhanced Performance)
Weight:	65 lbs (Rackmount), 80 lbs (Benchtop) 95 lbs (Enhanced Performance)

Certified by:

Susan Fortson
Susan Fortson, Testing and Calibration Manager

8/20/13
Date