

# Verification Checklist

Product Type: Gas Analyser

GA 2000

Serial Number: GA 08277

Checks and processes to be carried out		(✓) or (n/a)	
Documents	All paperwork has been completed and signed	✓	
	Solenoid by-pass - signed as reconnected (GEM-500 only)	N/A	
Functions, options & settings	Anemometer set (refer Precal Sheet)	✓	
	H2 warning level set (compensated CO only, refer Project 1 or Precal Sheet)	N/A	
	Baud rate set to 19200+HS (2K ONLY)	✓	
	Barometer set (± 5mbar of actual)	✓	
	Internal Gas sensors fitted	Cell 1	N/A
		Cell 2	N/A
		Cell 3	N/A
		Oxy cell	✓
	Current software version correct (write current version)	✓ 2.35	
	Current time correct	✓	
	Date format correct	(UK) USA	
	Company logo correct	✓	
	Instrument type correct (refer to opening title screen)	✓	
	Lifetime guarantee	on / off	
Service due date set (current date + 6 months)	✓		
Last gas check date set (refer outward gas check)	✓		
Sample flow	Vacuum tested at inlet port	✓	
	Flow correct	✓	
	Flow fail operates correctly	✓	
Ancillary readings	Temperature probe registers correct temperature	✓	
	Analyser recognises gas pod correctly	✓	
	Analyser recognises flow pod correctly	✓	
Pressure transducer	Check 5psi relative pressure transducer set using DPI	✓	
	Check 1psi differential pressure transducer set using DPI (GEM ONLY)	N/A	
Labels	All relevant product labels are fitted correctly	✓	
	'Ex' screen printing/label is clear/correct for product	✓	
	Battery cover sealing tape fitted (Hyperbaric units only)	N/A	
Accessories	All relevant accessories included correct	✓	
Memory & battery	Update EPROM database (2K only)	✓	
	Update GA Production database	✓	
	Memory clear (unless client requests otherwise)	✓	
	New batteries fitted as standard (NMRI Hyperbaric units only)	N/A	
	Battery life tested by logging (If new 2k battery fitted only)	14 Hrs	
Comments			

Verified By: L. Gibbs (ref. FI0002) Date: 08.11.05.  
Signed Printed

## CERTIFICATE OF CALIBRATION

Certificate number: GA08277L0041105  
 Date of Calibration: 04/11/05  
 Product: GA 2000  
 Serial number: GA08277

### CALIBRATION CHECK RESULTS

#### Primary Gas Channels

Methane		Carbon Dioxide	
Certified Gas %	Reading %	Certified Gas %	Reading %
0.0	0.0	0.0	0.0
0.5	0.4	0.5	0.4
5.0	5.0	5.0	4.5
14.8	14.7	14.8	14.2
59.5	59.9	40.5	37.8
50.1	50.9	49.9	47.5
100.0	99.0	0.0	0.0

#### Oxygen Channel

Certified Gas	0% O <sub>2</sub>	4.95 % O <sub>2</sub>	Air (20.9% nominal)
Reading	0.0 %	4.8 %	20.9 %

Approved by:

L. Gibbs

(Name)

*L. Gibbs*

(Signature)

All gases are certified to traceable National Standards.

This unit must be serviced at regular 6 monthly intervals by a Geotechnical Instruments Ltd approved service facility.