



Environmental Management Division

**CALIBRATION REPORT**

Client : Maeda Corporation  
Address : Tai Po Site Office,  
Ting Kok Road,  
Tai Po

Report No. : CR 000075  
Page No. : 1 of 2  
Issue Date : 23/08/2006

Received Date : 19/08/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 22/08/2006

**Calibration Results:**

Item : Gas Analyser model GA 2000, Geotechnical Instruments  
Serial No. : GA 08277  
Calibration Method : In house method (calibrated and checked with certified gas standards)  
Date of Calibration : 22/08/2006  
Results: :

**Oxygen**

| Expected, % | Reading, % |
|-------------|------------|
| 0.0         | 0.0        |
| 7.7         | 7.1        |
| 20.0        | 19.8       |

**Methane**

| Expected, % | Reading, % |
|-------------|------------|
| 0.0         | 0.0        |
| 16.6        | 15.6       |
| 31.6        | 30.4       |
| 44.8        | 45.3       |
| 60.0        | 60.3       |



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Results :

#### Carbon Dioxide

| Expected, % | Reading, % |
|-------------|------------|
| 0.0         | 0.0        |
| 11.1        | 10.6       |
| 21.3        | 21.1       |
| 30.1        | 31.2       |
| 40.0        | 39.9       |

| TEST DATE AND CONDITIONS |            |
|--------------------------|------------|
| Date                     | 27/07/2007 |
| Atmospheric Pressure     | 996 mB     |
| Ambient Temp             | 19 °C      |
| Enviroics Serial No.     | 3268       |

**GAS DATA LTD**

Pegasus House  
 Seven Stars Estate  
 Wheler Rd  
 Coventry  
 CV3 4LB  
 Tel 02476303311 Fax 02476307711



## GFM410 FINAL INSPECTION & CALIBRATION CERTIFICATE


| INSTRUMENT DETAILS |                                   |
|--------------------|-----------------------------------|
| Serial No          | Customer                          |
| 10239              | science international corporation |

| INSTRUMENT CHECKS   |   |                    |                |
|---------------------|---|--------------------|----------------|
| Keyboard            | ✓ | Pump Flow          | 400 cc/min     |
| Display Contrast    | ✓ | Pump Flow @ -200mB | 300 cc/min     |
| Clock Set / Running | ✓ | S/W Version        | G410.0022/0004 |
| Labels Fitted       | ✓ | Recalibration Date | 27/7/2008      |

| GAS CHECKS                 |               |                              |               |         |               |        |               |
|----------------------------|---------------|------------------------------|---------------|---------|---------------|--------|---------------|
| Calibration Gas            |               | Instrument Gas Channels Read |               |         |               |        |               |
| Gas Type                   | Applied Conc. | CH4 (%)                      | tol. (% vol.) | CO2 (%) | tol. (% vol.) | O2 (%) | tol. (% vol.) |
| N2                         | 100%          | 0.0                          | 0.0           | 0.0     | 0.0           | 0.0    | +0.1          |
| CH4                        | 5%            | 5.1                          | +/-0.3        | 0.0     | 0.0           | 0.0    | +0.1          |
|                            | 60%           | 59.2                         | +/-3.0        | 0.0     | 0.0           | 0.0    | +0.1          |
| CO2                        | 5%            | 0.0                          | 0.0           | 4.9     | +/-0.3        | 0.0    | +0.1          |
|                            | 40%           | 0.0                          | 0.0           | 39.4    | +/-3.0        | 0.0    | +0.1          |
| AIR (20.9% O2, 400ppm CO2) | 100%          | 0.0                          | 0.0           | 0.0     | +0.1          | 20.9   | +/-0.5        |
| [Hatched Area]             |               |                              |               |         |               |        |               |
| [Hatched Area]             |               |                              |               |         |               |        |               |

| PRESSURE CHECKS      |                     |                                   |           |                  |           |  |  |
|----------------------|---------------------|-----------------------------------|-----------|------------------|-----------|--|--|
| Calibration Pressure |                     | Instrument Pressure Channels Read |           |                  |           |  |  |
| Pressure @           | Applied Pressure    | Atmospheric [Ap] (mB)             | tol. (mB) | Static [Sp] (mB) | tol. (mB) |  |  |
| All ports            | current atmospheric | 996                               | +/-2.0    | 0                | 0.0       |  |  |
| Ap port (internal)   | +800mB(a)           | 800                               | +/-5.0    | 0                | 0.0       |  |  |
|                      | +1200mB(a)          | 1200                              | +/-5.0    | 0                | 0.0       |  |  |
| Gas IN port          | +400mB(g)           | 996                               | n/a       | 400              | +/-2.0    |  |  |
|                      | -400mB(g)           | 996                               | n/a       | -399             | +/-2.0    |  |  |
| [Hatched Area]       |                     |                                   |           |                  |           |  |  |
| [Hatched Area]       |                     |                                   |           |                  |           |  |  |

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| Ambient Temp             | 19°C       |
| Envionics Serial No.     | 3268       |

|   |   |
|---|---|
| <b>GAS DATA LTD</b><br>Pegasus House<br>Seven Stars Estate<br>Wheler Rd<br>Coventry<br>CV3 4LB<br>Tel 02476303311 Fax 02476307711 |  |
|---|---|

## GFM410 FINAL INSPECTION & CALIBRATION CERTIFICATE

### FLOW CHECKS

| OPTIONAL GAS CHECKS |               |                              |  |  |  |  |               |
|---------------------|---------------|------------------------------|--|--|--|--|---------------|
| Calibration Gas     |               | Instrument Gas Channels Read |  |  |  |  |               |
| Gas Type            | Applied Conc. | Label Range                  |  |  |  |  | tol. (% vol.) |
| N2                  | 100%          |                              |  |  |  |  | 0.0           |
|                     |               |                              |  |  |  |  | +/- 5.0       |
|                     |               |                              |  |  |  |  | +/- 5.0       |
|                     |               |                              |  |  |  |  | +/- 5.0       |
|                     |               |                              |  |  |  |  | +/- 5.0       |
|                     |               |                              |  |  |  |  | +/- 5.0       |

### OPTIONAL TEMPERATURE CHECK

| PACKING         |   |                            |    |            |    |   |
|-----------------|---|----------------------------|----|------------|----|---|
| Instrument      | ✓ | AC Powered Battery Charger | UK | EUR        | US |   |
| Gas Sample Pipe | ✓ | Manual                     | ✓  | Carry Case |    | ✓ |
| Spares Pot      | ✓ | Allen Key                  | ✓  |            |    |   |
| USB Lead        |   | PC Software                |    |            |    |   |
| Vane Anemometer |   | Extra Items                |    |            |    |   |

**TESTED** ps sarkaria ..... **APPROVED** C Bonell .....