



Anagas CD 95

Carbon Dioxide and Oxygen Analyser

Operating Manual

Hatech Gasdetectietechniek

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1. Introduction

1.1 General

The Anagas CD 95 analyser has been designed to measure carbon dioxide and oxygen in numerous applications. Carbon dioxide measurement is available in nine different ranges, varying from 0 - 2,500ppm to 0 - 100%

The analyser should only be operated by competent persons who have received adequate training in all aspects of the use of the unit.

In addition, seven other gases (H₂S, CO, SO₂, NO₂, Cl₂, H₂ and HCN) may be measured using electro-chemical gas pods.

1.2 Main features

- Easy to operate with user friendly screen prompts
- Data storage with ID coding, time and date stamp
- Internal pump
- On-site recalibration capabilities
- Data logging facility
- Maximum / Minimum alarm settings
- Metric or USA units (pre-set at time of manufacture)
- Portable and lightweight - 2.1kg (5lbs)
- Automatic power-off device to conserve battery

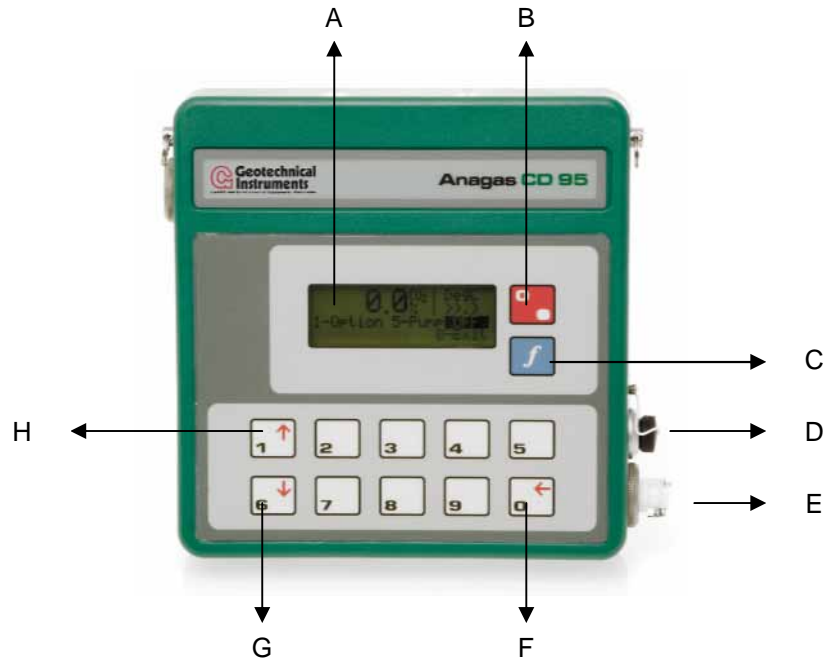
1.3 Accessories

The unit is usually supplied complete with the following accessories:

- Carrying strap
- Battery charger and lead
- Particulate filter
- Operating manual
- Calibration certificate
- Inspection certificate

Note	The screen contrast may be changed by using the scroll keys (1↑ and 6↓), in the first screen after the analyser has been switched on.
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2. Diagram



A	Graphic LCD	B	On/Off key
C	Function key Alphanumeric key - Letters/Numbers for Identity codes	D	7-Pin communications and charging socket Also used for electrical connection to gas pod
E	Exhaust port Also used for connection to inlet tube of gas pod	F	Screen Exit key - Press once Erase key - Keep pressed, then release
G	Scroll Down key	H	Scroll Up key
J	Inlet port	L	Carrying strap attachments

3. Maintenance

3.1 Operating Manual

The Anagas CD 95 analyser is very easy to use but it is essential that this operating manual is read prior to use.

3.2 Servicing

In order to keep the unit in perfect working order, we strongly recommend that it is returned to your local service agent every six months for routine servicing, maintenance and calibration.

3.3 Cleaning

Keep the unit clean by wiping with a soft cloth and a mild detergent. Always replace the protective dust cap on the communications and charging socket after use.

3.4 Sunlight

The unit should not be left out in direct sunlight for long periods since component damage due to overheating may result.

3.5 Storage

If the unit is to be stored for a long period, the internal batteries should be fully charged prior to storage. The unit should then be charged once every two months.

3.6 Purging

Always purge the analyser with clean air after use.

4. Battery Charging

Please follow these instructions carefully:

- The internal battery of the Anagas CD 95 gas analyser must only be charged with the battery charger provided with the unit.
- Provided that the analyser remains switched on, the battery charger can be used as a continuous source of power. If, however, the analyser is switched off, batteries must not be charged for a period exceeding 48 hours, since damage to cells will result.

4.1 Battery Capacity

If the analyser is repeatedly given small 'top-up' charges, or if it is only used infrequently, the battery capacity will be reduced. To restore the battery to full capacity, totally discharge the unit and then charge for 16 hours.

4.2 Battery shut-off

Circuitry within the analyser continuously monitors the battery voltage. If the battery voltage falls below a pre-determined level, the unit will automatically shut itself off in order to prevent memory loss.

4.3 Automatic Power-off

The unit is also fitted with an automatic power-off device in order to conserve power. If no key is pressed for 15 minutes then the unit will automatically switch itself off (no stored readings will be lost).

Note	For some variations of the Anagas CD 95 analyser, this facility is disabled. Please contact Hatech Gasdetectietechniek for further information.
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5. Calibration

Important	<p>Exhaust Port</p> <p>When the analyser is being calibrated, ensure that the exhaust port is clear and unblocked at all times.</p> <p>If the exhaust port becomes blocked, the unit could become over-pressurised. Such over-pressurisation could lead to damage of internal components.</p> <p>Always ensure that any calibration gases are adequately vented.</p>
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5.1 Introduction

It is important the unit is calibrated before each sequence of readings. The unit incorporates a calibration facility to improve reading accuracy in specific operating ranges.

The user calibration facilities include the following options:

	Operation - Set Zero	Operation - Calibrate Span
CO ₂	No *	Yes
Gas pod, e.g. CO	Yes	Yes
O ₂	Yes	Yes (low and high)

It is important to ensure the unit is stabilised at its approximate working temperature before performing any of the calibration operations.

* See following notes.

5.2 Calibration Gas

Please note that user recalibration of an Anagas CD 5 analyser will chiefly improve accuracy in the range of the calibration gas used. This may cause less accurate readings of concentrations outside the newly calibrated range.

Although the CO₂ channel cannot be zeroed as the O₂ channel, it is possible to automatically recalculate the CO₂ zero position by using a very low CO₂ concentration. For most Anagas ranges, CO₂ of 500ppm will be suitable. When this concentration is flowed through the unit, software will automatically recalculate the calibration based on a revised zero reading. As most calibration errors are due to zero drift rather than span draft, the majority of errors will be corrected by this low level concentration.

It is recommended that if only one calibration gas can be obtained, it is the low concentration 500ppm CO₂ mixture.

When the zero position has been recalculated, it is then possible to use a second calibration gas with a much higher concentration (usually more than 5% of the range of the unit) to correct any changes in the span characteristics throughout its entire range. For example:

- CD 1.4 0-25,000ppm CO₂ range: Use a calibration gas with >15,000ppm CO₂
- CD 1.8 0-50% CO₂ range: Use a calibration gas with >30% CO₂

Any of the nine Anagas CD 95 analysers can be fitted with one of three different oxygen sensors, ranges 0-5%, 0-21% or 0-100% O₂.

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The typical calibration procedures described in this manual are based on three separate mixtures and ambient air. These are detailed in the table on page 9.

This combination is used as an example. Other combinations are possible, depending upon the range of the analyser and the type of gas pod used.

5.3 Factory Settings Option

This option will reset the Anagas CD 95 analyser to all of its factory programmed characteristics and will clear all user entered calibration points.

5.4 Calibration Equipment

This section describes the equipment and the setting up procedure for the calibration operation.

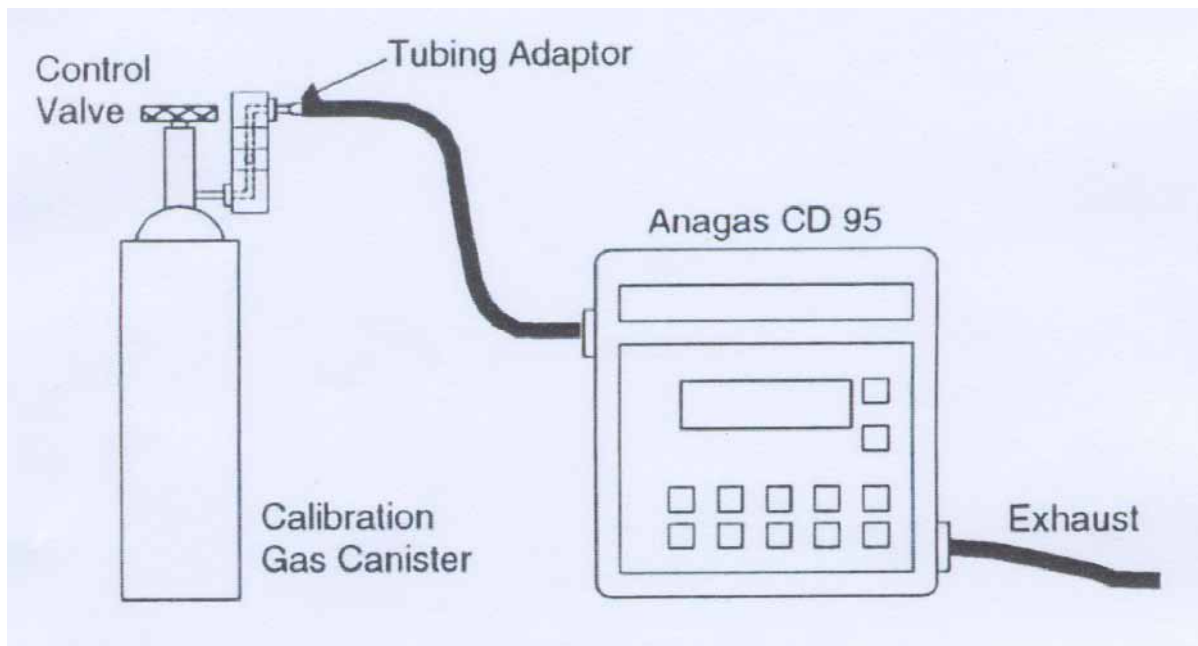
Equipment required

- Calibration gas mixtures: Your local service agent can supply suitable mixtures
- A combined flowmeter/control valve, to control the gas flow in the range of 0 - 1,000cc/min and fitted with a suitable connector

Setting up the equipment

Refer to diagram below.

- Connect the required gas canister to the flowmeter/control valve using the threaded connector on both components.
- Connect the flowmeter/control valve to the inlet port of the Anagas CD 95 analyser using suitable rubber tubing.



It is vital to ensure that:

- the exhaust port and tubing remain unblocked at all times;
- the exhaust tubing passes used calibration gas to an in confined and well vented area;
- exhaust gases are not allowed to build up in an enclosed area;
- there are no leaks in the tubing and connections;
- no naked lights and no smoking are allowed in the calibration area.

5.5 Calibration Procedures

See page 15 for screens.

The typical calibration procedures described are based on three mixtures and ambient air. In the following example, calibration gas mixtures 2 and 3 are suitable for an analyser with a range of 25,000ppm C₂ and 100% O₂. Please obtain gas mixtures which suit the range of your analyser. If you are unsure which mixture to obtain, please contact us for further information.

Step	Operation Action Proceed from left to right			Calibration Gas (balance gas: N ₂)
	CO ₂	O ₂	Gas pod, e.g. CO	
Step 1	Span low range *	Zero	Zero	Mixture 1 500ppm CO ₂
Step 2	-	Span high range	-	Mixture 2 100% O ₂
Step 3	Span range **	-	Span 50ppm	Mixture 3 15,000ppm CO ₂ 50ppm CO
Step 4	-	Span low range ***	-	Mixture 4 Air 20.8% O ₂

* By using a low concentration CO₂ span gas, software automatically recalculates the zero position and corrects the main calibration errors (see page 7).

** Following step 1, it is possible to recalculate the span over the entire range with the higher concentration CO₂.

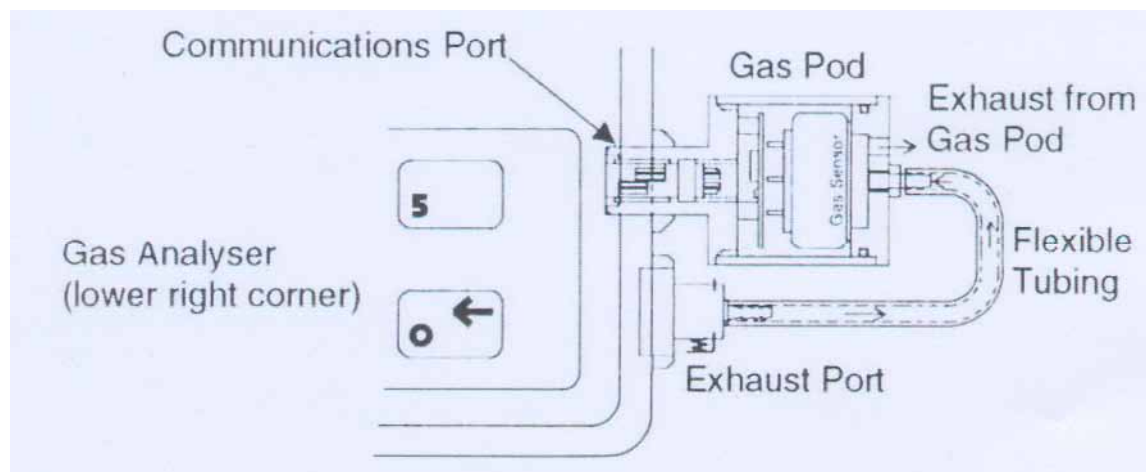
*** Always enter air as 20.8% oxygen to ensure that the low range span point is accepted.

Important	<p>It is vital that the gas is flowing through the unit (or in the case of ambient air, that the pump is running) when calibration concentrations are entered or calibration is checked.</p> <p>Now refer to page 15 for guidance with the calibration screens.</p>
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6. Gas Pods

Gas pods are separate devices containing an electro-chemical cell and can be used to extend the range of gases monitored by the Anagas D 95 analyser.

A pod is plugged into the communications port and a short length of tubing re-routes the exhaust gas from the analyser via the electrochemical cell.



The presence of a gas pod is automatically detected by the Anagas CD 95 analyser. This will show the gas pod type and reading on the gas reading screen. Gas pod readings will be stored along with the other measured parameters.

Gas pods may be calibrated in the same manner as other gas channels. If a pod is connected before entering the calibration screen, the name of the gas pod will be displayed along with the other gases:

Calibrate Gas Type
1-CO ₂ 2-O ₂
4-CO
5-Factory Settings

CO is given only as an example. Other gas pods detect H₂S, SO₂, NO₂, Cl₂, H₂ and HCN.

Reverting to factory settings with a gas pod connected will also restore the gas pod to its original calibration settings. The electro-chemical cells within the pods have a finite life (usually 12 months) and will require calibration checking/setting on a regular basis.

Replacement electro-chemical cells are available from your local service agent.

7. Download Data

The stored readings in an analyser may be transferred to a PC via a special RS232 adaptor cable and UNICOM communications software product code CD 4.1).

Files are stores in a 'CSV' format to enable easy importation into most commercially available spreadsheets.

7.1 Copyright warning

By purchasing UNICOM software, the user has the right to run the programme on any single computer system. It is illegal to make copies of the programme other than for your own use, or to install the programme on multiple computers, without the written permission of Hatech Gasdetectietechniek

7.2 Hard Disk Installation

We suggest that a sub-directory is created called UNICOM. To make the sub-directory and copy the programme, type the following at the command prompt:

```
MD(space)UNICOM
CD\UNICOM
UNICOM
```

Consult your DOS manual for more information about DOS commands.

The programme title page should appear with the version number and date at the top of the screen. Should you experience any difficulties with downloading, please ensure this information is at hand when contacting our technical support team.

7.3 Selecting the Communications Port

The gas analyser can be connected to either the COM1 or COM2 RS232 port. If COM2 port is being used, the programme must be run by typing UNICOM(space)2 at the command prompt.

7.4 Downloading

The gas analyser and serial interface lead can be connected in any order to your computer. The analyser should be switched off during connection and disconnection.

With the analyser connected and the UNICOM software running:

- Switch on the analyser
- Select option 4 - Download Data (from the screen headed 'General Utilities')

1 - General Utilities
2 - Read/Store Data
3 - View/Print Data
4 - Download Data

A message box will display the progress indication whilst downloading is taking place. If there are only a few readings this will be momentary. This is then replaced by the following screen:

RS-232 MODE
Awaiting instructions from computer

If there are no readings to transfer, a warning message will be displayed.

7.5 Viewing Readings

Once transferred, readings can be viewed on the computer screen by using the ↑↓ cursor keys. A counter at the top of the screen gives the total number of reading sets and the current reading position.

7.6 Setting the Default Data Directory

The default data directory is the disk directory to which data files will be stored. This may be modified by pressing F0. Once selected, the default data directory will be stored as an 'INF' file on the hard disk and will remain set next time UNICOM software is run.

7.7 Specifying a Data Filter

Applying a filter to the ID code or time and date allows you to store separate files for different groups of data. For example, if you wish to store all IDs

8. General Utilities

8.1 Set Time/Date

To check or alter the time and date setting of the internal clock:

1 - General Utilities
2 - Read/Store Data
3 - View/Print Data
4 - Download Data

1 - Time/Date
2 - Battery
3 - Memory
9 - More 0-Exit

16:34.16 19/07/95
3 - Enter time/date 0-Exit

Date may be in format dd/mm/yy or depending upon the pre-set country setting of the analyser.

?h:mm.ss dd/mm/yy
Enter new time/date

Enter time/date in the prompted format.
Use ← key to correct errors (press and hold)

16:37.00 19/07/95
Enter new time/date 0-Set

Time/Date Set OK!

16:37.05 19/07/95
1 - Enter time/date 0-Exit

8.2 Battery

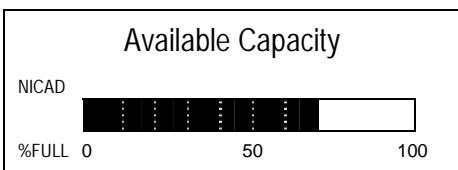
To check the available battery capacity:

```

1 - General Utilities
2 - Read/Store Data
3 - View/Print Data
4 - Download Data
    
```

```

1 - Time/Date
2 - Battery
3 - Memory
9 - More
0-Exit
    
```



Press 0 to exit from the screen.

8.3 Memory

To check or clear the readings in memory, or to clear existing ID codes:

```

1 - General Utilities
2 - Read/Store Data
3 - View/Print Data
4 - Download Data
    
```

```

1 - Time/Date
2 - Battery
3 - Memory
9 - More
0-Exit
    
```

```

0345 Free Readings
1 - Clear Readings
2 -Clear ID Info
    
```

Shows the available memory space.
Choose either 'Readings' or 'ID Info' to clear that part of memory.

```

CAUTION!
DATA WILL BE LOST
Enter 0102 to clear
? _ _ _
    
```

Enter 0102 to clear or any other code to abort.

```

CAUTION!
DATA WILL BE LOST
Enter 0102 to clear
0102 0-Enter
    
```

Enter 0102 to clear or any other code to abort.

```

Clearing Memory!
    
```

```

0675 Free Readings
1 - Clear Readings
2 - Clear ID Info
    
```

Press 0 to exit from the screen.

The Anagas CD 95 analyser can store approximately 675 sets of readings.

8.5 Alarm Levels

To change the maximum and minimum alarm levels for the CO₂ and O₂ channels:

1 - General Utilities
2 - Read/Store Data
3 - View/Print Data
4 - Download Data

When a maximum or minimum gas level has been reached, the 'Read Gas Level' screen (see below) will show "MAX" or "MIN" alternating with the relevant symbol, CO₂ or O₂. An intermittent beep tone will also sound.

1 - Time/Date
2 - Battery
3 - Memory
9 - More 0 - Exit

11,456	MAX	O ₂ % sev
	ppm	45.0
1 - Option	5 - Pump	OFF
6 - Store	8 - Log	0 - Exit

4 - Calibration
5 - Alarm Levels
9 - Back

	1 - Min	2 - Max
CO ₂ ppm	05000	10000
O ₂ %	017.0	022.0
1/2 Change		0 - Exit

This screen shows the current alarm level settings of the unit. Each channel has a maximum and a minimum level. Select 1 to change the minimum level or 2 to change a maximum level of one channel.

Minimum Levels
1 - Change CO ₂
2 - Change O ₂
0 - Exit

Next, select the channel for changing alarm level, CO₂ or O₂.

Alarm Below		
Old	05000	CO ₂ ppm sev
New ?		

Enter the new level at the prompt.

Alarm Below		
Old	05000	CO ₂ ppm sev
New	04000	
		0 - Set

Press 0 to set

	1 - Min	2 - Max
CO ₂ ppm	04000	10000
O ₂ %	017.0	022.0
1/2 Change		0 - Exit

The other alarm levels can be changed following the same procedure. Select 0 to return to the 'General Utilities' menu.

9. Read Gas Levels

9.1 Select ID

To obtain readings of carbon dioxide and oxygen. In addition, readings of certain other gases may be obtained through the use of gas pods.

1 - General Utilities
2 - Read/Store Data
3 - View/Print Data
4 - Download Data

Reading using ID?		
1 - Yes	2 - No	0 - Exit

Read using ID?		
1 - Yes	2 - No	0 - Exit

Manually enter ID or scroll through?	
1 - Scroll	2 - Manual

Manually enter ID or Scroll through?	
1 - Scroll	2 - Manual

1) ID AAA 0003	
↑↓ - Scroll	0 - Exit
2 - Select	

Please Enter ID	
<i>f</i> - Numbers/Letters	
ID AAA A _ _ _	0 - Enter

Use blue 'f' key to change between numbers/letters. Enter characters at the prompt '?@' or the last letter shown.

4) ID BBBB 0002	
↑↓ - Scroll	0 - Exit
2 - Select	

Please Enter ID	
<i>f</i> - Numbers/Letters	
ID CCCC 1111	0 - Cont

18,456	CO ₂ ppm	DegC 20.7
1-Option	5-Pump	OFF
6-Store	8-Log	0-Exit

Cannot find ID		
CCCC 1111		
1 - Store as new ID		
2 - Retry		0 - Abort

18,456	CO ₂ ppm	DegC 20.7
1-Option	5-Pump	OFF
		0-Exit

- * Use ↑↓ to find required ID.
- ** When required ID is found, press 2 to select.

18,456	CO ₂ ppm	DegC 20.7
1-Option	2-Pump	OFF
6-Store	8-Log	0-Exit

9.2 Take reading of gas concentration

Always ensure that the calibration of the analyser has been checked before each sequence of readings.

18,456	CO ₂ ppm	DegC 20.7
1-Option	5-Pump	OFF
6-Store	8-Log	0-Exit

The current CO₂ reading will be displayed on the left side of the screen. This reading can be in ppm or percentage of CO₂, depending on the range of the unit

18,456	CO ₂ ppm	Peak 19,344
1-Option	5-Pump	OFF
6-Store	8-Log	0-Exit

Pressing key 1 will change the available options. These will appear in the top right of the screen.

The option that can be fitted are:

- Peak CO₂: Allows the highest reading of CO₂ obtained during this reading to be displayed.
Press key 3 when prompted to start sequence.
- Temperature: From internal sensor or plug-in probe
- Oxygen
- Gas pod: To obtain readings of other gases
- Relative humidity

18,456	CO ₂ ppm	DegC 20.7
1-Option	5-Pu mp	OFF
6-Store	8-Log	0-Exit

Use key 5 to turn pump on/off (the ON/OFF indicator is in reverse video).

18,456	CO ₂ ppm	O ₂ % 20.8
1-Option	5-Pu mp	OFF
6-Store	8-Log	0-Exit

If "Flow" appears this indicates a blockage or obstruction in the sampling tube or internal pipework. Stop the pump and check the tubing.

18,456	CO ₂ ppm	O ₂ % 20.8
1-Option	5-Pu mp	OFF
6-Store	8-Log	0-Exit

Provided an ID has been selected, pressing key 6 "Store" will store all readings, including the available options, in memory. '6-Store' and '8-Log' will not appear if an ID has not been selected.

18,456	CO ₂ ppm	H ₂ S ppm 20.8
1-Option	5-Pu mp	OFF
6-Store	8-Log	0-Exit

18,456	CO ₂ ppm	H ₂ S ppm 058
1-Option	5-Pump	OFF
6-Store	8-Log	0-Exit

18,456	CO ₂ ppm	mbar 1050
1-Option	5-Pu mp	OFF
6-Store	8-Log	0-Exit

18,456	CO ₂ ppm	RH % 65.0
1-Option	5-Pu mp	OFF
6-Store	8-Log	0-Exit

9.3 Log Data

Allows all data (including other parameters) to be recorded automatically at operator chosen intervals and stored in memory.

18,456	CO ₂ ppm	DegC 20.7
1-Option	5-Pu mp	OFF
6-Store	8-Log	0-Exit

Enter Required
Logging Interval
Min 01, Max 60 mins
Interval?

Enter the required number of minutes as shown by the prompt. Minimum is 1 minutes, maximum is 60 minutes.

Enter Required	
Logging Interval	
Min 01, Max 60 mins	
Interval 10	0-Set

In this example, a reading will now be obtained every 10 minutes.

Select Running Time
for pump in seconds
Min 00, Max 90 secs
Duration?

Now enter the length of time that you wish the pump to run, immediately prior to a reading being taken.

Select Running Time	
for pump in seconds	
Min 01, Max 90 secs	
Duration 15	0-Set

In this example, the pump will run for 15 seconds before a reading is taken. '0-Set' commences the logging sequence.

18,456	CO ₂ ppm	DegC 20.7
LOGGING PLEASE WAIT		
1-Option		0-Stop

During a logging sequence, all options area also being recorded.
Press 0 to end the logging sequence.
Press 1 to display the other options being recorded.

10. View/Print Data

Allows the operator to view or print out data which has already been stored in the memory of the analyser.

1-General Utilities
2-Read/Store Data
3-View/Print Data
4-Download Data

Please Select
1-View Data
2-Print Data
0-Main Menu

View Data
1-With specific ID
5-All Data

Manually enter ID or Scroll through?	
1-Scroll	2-Manual

1) ID AAAA 0003	
↑↓Scroll	
2-Select	0-Exit

CO ₂	18,456ppm	AAAA 0003
H ₂ S	20.8%	15.00.25
Pk	19,344ppm	18/07/95
T	20.7DegC	5-More

CO ₂	18,456ppm	AAAA 0003
H ₂ S	001ppm	15.00.25
AP	1050mbar	18/07/95
RH	65%	5-More

Print sequence is similar to view sequence.

Of 'All Data' has been chosen, stored readings under all IDs may be accessed. Pressing key 0 allows operator to exit the sequence.

It is usually quicker to scroll and select an ID than to enter one manually.

The last reading stored will appear first. Pressing scroll keys ↑↓ allows operator to view readings of the selected parameter which have been taken at different Times but stored under the same ID code.

Pressing key 5 will scroll the left part of the screen upwards to show the other Parameters recorded.

Press key 0 to exit from the screen.

11. Technical Specifications

PHYSICAL	
Size	H227mm x W226mm x D51mm (excluding fittings)
Weight	2100g
Case material	ABS - green
Keys	12 Key membrane panel

INTERNAL BATTERIES	
2 No. 3 cell 2.8AH Ni-Cad battery pack (user changeable)	
1 No. 40mA Ni-Cad memory back-up (not user changeable)	
Capacity	Typically 9 hours without pump running from full charge
Life	Typically 500 charge/discharge cycles

FILTERS	
Inlet	0.01µm Fibre filter (user changeable)
Water trap	0.2µm PTFE hydrophobic filter (user changeable)
Internal	0.2µm PTFE hydrophobic filter (not user changeable)

ENVIRONMENT	
Operating temperature	0°C to +40°C
Relative humidity	0-100% Non-condensing
Sealing	Splash proof

RANGES	
Carbon Dioxide	0-100% (refer to data sheet for increments)
Oxygen	0-100% (refer to data sheet for increments)
Atmospheric pressure range	±256mbar from calibration pressure
Visual/Audible alarms	Any value 0.01% to 99.9%
External temperature	-10°C to +100°C

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TYPICAL ACCURACY						
Cat. No.	Range	CO₂				
CD1.1	0 - 2,500ppm	0 - 1000ppm		1000ppm - FS		
		+/- 150		+/- 250		
Cat. No.	Range	CO₂				
CD1.2	0 - 5,000ppm	0 - 1,000ppm	1,000 - 2,500ppm	2,500ppm - FS		
		+/- 150	+/- 250	+/- 500		
Cat. No.	Range	CO₂				
CD1.3	0 - 10,000ppm	0 - 1,000ppm	1,000 - 3,000ppm	3,000ppm - FS		
		+/- 150	+/- 250	+/- 600		
Cat. No.	Range	CO₂				
CD1.4	0 - 25,000ppm	0 - 1,500ppm	1,500 - 10,000ppm	10,000ppm - FS		
		+/- 200	+/- 600	+/- 750		
Cat. No.	Range	CO₂				
CD1.5	0 - 5%	0 - 0.5%	0.5 - 1.5%	1.5% - FS		
		+/- 0.05	+/- 0.1	+/- 0.25		
Cat. No.	Range	CO₂				
CD1.6	0 - 10%	0 - 0.5%	0.5 - 1.5%	1.5 - 5.0%	5.0 - 7.5%	7.5% FS
		+/- 0.05	+/- 0.1	+/- 0.25	+/- 0.5	+/- 1.0
Cat. No.	Range	CO₂				
CD1.9	0 - 100%	0 - 5%	5 - 15%	15% - FS		
		+/- 0.5	+/- 1.0	+/- 3.0		
Optional		Oxygen				
Available on all models		0 - 5% Vol		5% - FS		
		+/- 0.5%		+/- 1.0%		
Atmospheric pressure	±5mbar					
External temperature	±0.2°C (± probe accuracy)					
Internal temperature	±0.2°C (± sensor)					

BATTERY CHARGER	
110V or 240V AC operation (to be stated at time of order)	
Mains 'On' and 'Charge' indicators	
Integral mains power lead	
Constant current regulation	225mA maximum
Charge time	Approx. 16 hours
Capable of running continuously with charger connected	

PUMP	
CD motor	
Typical flow	350cc/minute
Maximum vacuum	400mbar (typical)

FACILITIES
Real time clock and calendar
Reading storage capacity with ID code, time and date
Reading transfer facility to PC using RS232 communications interface lead
User re-calibration facility for all gas readings
Pump on/off indication
Flow fail alarm

12 WEEE Compliance

The wheelie bin symbol displayed on equipment supplied by Hatech Gasdetectietechniek signifies that the apparatus must not be disposed of through the normal municipal waste stream but through a registered recycling scheme.

The Waste Electrical and Electronic Equipment directive (WEEE) makes producers responsible from July 1st 2007 in meeting their obligations, with the fundamental aim of reducing the environmental impact of electrical and electronic equipment at the end of its life.

Geotechnical is now registered with the Environmental Agency as a producer and has joined a recycling scheme provider who will manage and report on our electrical waste on the company's behalf.

Our Producer Registration Number is WEE/GB0052TQ

When your instrument is at the end of its life, please contact the Hatech Gasdetectietechniek sales team who will advise you on the next step in order to help us meet our WEEE obligations.

