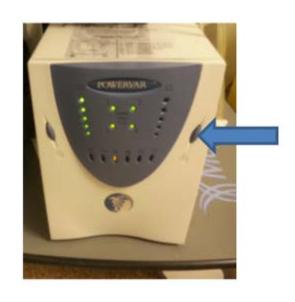


Medgraphics Gas Analyser



Start up

- Turn on the power supply at the base of the trolley, press for 3 seconds
- Switch on the medgraphics unit. The switch is located at the back of the monitor unit





 Allow 10 minutes for the unit to warm up

Volume Calibration

 Click on the spanner symbol on the home screen



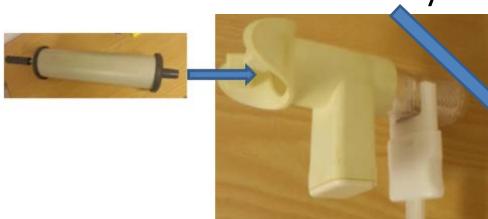
 Click the image of the syringe on the following screen

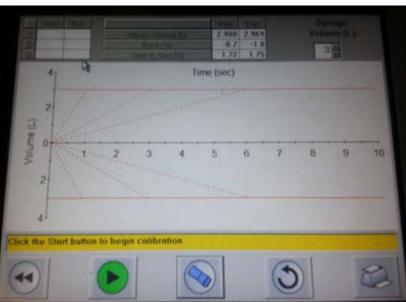
 Connect the syringe to the sample line and mouthpiece

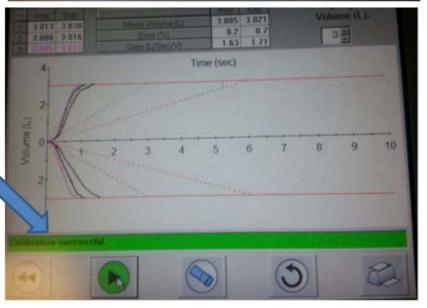


Volume Calibration

- Click the green play button
- Follow the instructions on screen as to when the retract and push in the syringe
- Calibration successful will appear on screen if it has been carried out correctly







Patient Information

- After the volume calibration is complete, click the back arrows until you return to the patient screen
- Once the warm up is complete, tap the screen using the pointer to enter the medgraphics software from the initial display screen
- The patient database screen will be displayed
- Either double tap on an existing patient or press the person and star button to enter a new patient into the database



Patient ID	Last Name	First Name	Middle Name	Visit Date
A6		SAM		09/10/2014 05:
A6		SAM		09/10/2014 05:0
A6		SAM		09/10/2014 03:5
A6		SAM		09/08/2014 05:2
A6		SAM		09/08/2014 05:0
A6		SAM		09/08/2014 03:2
A4		OWEN	J	09/06/2014 10:4
A4		OWEN	J	09/06/2014 10:4
A4		OWEN	J	09/06/2014 10:2
A4		OWEN	J	09/06/2014 09:1
A6		SAM		09/05/2014 05:1
A6		SAM		09/05/2014 05:1
A6		SAM		09/05/2014 032
A6		SAM		09/03/2014 05:0
A6		SAM		09/03/2014 04:1
A4		OWEN	J	09/03/2014 10:4

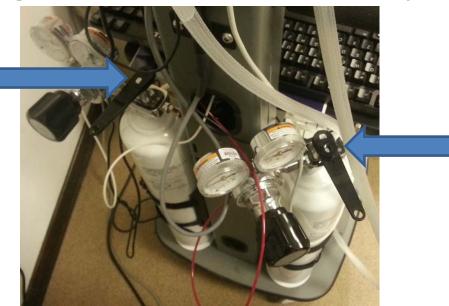
Inputting a new patient

- You will need to fill out, last name, first name, ID, Gender, Race, DOB, Height (Ht) and Weight (Wt)
- Once entered, press
 the O₂ button



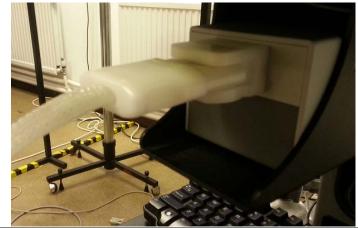
Gas Calibration

- The analyser will then undertake a 5 minute check before displaying a yellow prompt to 'press calibration button'
- Turn both gases on at the valve by half a turn



Gas Calibration

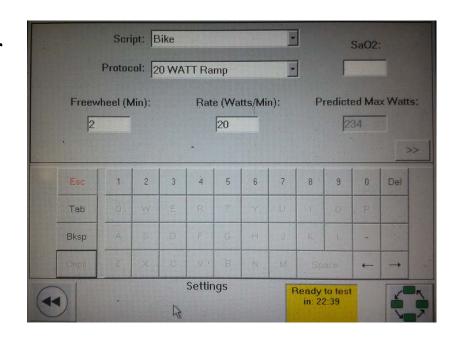
- Remove the sample line from the top of the analyser and plug into the calibration box, ensure that the three metal tubes on the connector align with the holes in the calibration box
- Press the calibration button. The analyser will display a calibration results screen once completed
- Click ok if successful
- Turn off both gases and remove the sample line from the calibration box



Constitution of the Consti								
GX AutoCal								
		CO2%						
Reference Gas	21.00	0.00						
Calibration Gas	12.00	5.00				17-18	No.	
O2 23000185	5D1				CO2 2310001	45		
	H	Min	Max		The sale of the sale		Min	Max
Gain	9.94	5.00	20.00		Gain	1.02	0.40	2.00
Offset (V)	0.01	-0.10	0.10		Offset (V)	-6.90	-9.99	-5.50
Phase Delay (sec)	0.64	0.10	1.50		Phase Delay (sec)	0.44	0.10	1.50
Delay Change	0.01	-0.20	0.20		Delay Change	0.02	-0.20	0.20
Resp time 2-90%	0.15	0.02	0.25		Resp time 2-90%	0.14	0.02	0.25
		BE			Cal Count	0.99	0.50	1.20
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	OK			He	etry	Prin		

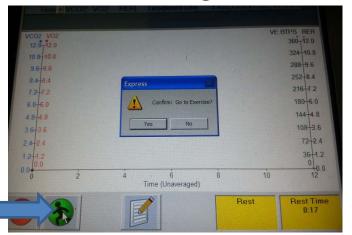
Selecting equipment

- You may wish to use a Lode bike with the gas analyser or simply run the gas analyser without any other equipment connected
- If using it as a standalone gas analyser select 'None' from the script dropdown menu
- Alternatively select 'Bike' and then choose a protocol
- Click the next button

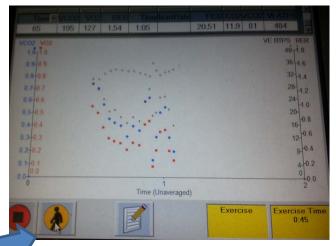


Running a test

- Connect up the mouthpiece assembly
- Press the green arrow button to start recording data in the REST phase of the test
- Press the green running person to start the EXERCISE phase of the test
- At the end of the test press the amber person to record data in the RECOVERY phase, then press the red stop button to finish data recording







Exporting Data

- Using the screen rotation button (bottom right of screenshots) click until you reach the other time down selection with the data columns
- Using the pointer drag across the top of the columns to select all the columns and highlight them black
- Press control c on the keyboard to copy
- Then press the windows key on the keyboard. Open excel and paste the data into the spreadsheet.
- Save onto a memory stick

Time -	VCO2	VO2	RER	Time	leartRate	FIO2	CO2	VCO2	Vt ATP
27	735	551	1.34	0:27		20.54	21.9	42	1085
30	693	496	1.40	0:30		20.58	22.3	40	1138
33	568	383	1.48	0:33		20.53	21.3	43	1007
35	452	297	1.52	0:35		20.53	20.1	45	836
38	422	274	1.54	0:38	(20.54	18.8	49	768
41	396	259	1.53	0:41		20.53	19.4	47	804
44	313	207	1.51	0:44		20.53	17.5	53	693
46	393	260	1.51	0:46		20.52	19.6	47	775
49	357	241	1.48	0:49		20.52	19.0	48	732
52	591	404	1.47	0:52		20.51	22.6	40	943
54	623	433	1.44	0:54		20.51	20.7	44	791
55	132	81	1.63	0:55	REST.	20.52	8.8	143	418
57	308	203	1.52	0:57		20.53	13.7	64	519
59	502		1.45	0:59		20.51	18.3	50	650
61	545		1.50	1:01		20.51	20.4	46	882
63	304	202	1.50	1:03		20.50	13.9	69	558
(44)	30.	,	Oth	er Time	Down				S. A.



Running another test/Power off

- Press the back key until you reach the patient screen
- Choose another subject if required
- Alternatively press the power off symbol at the bottom right of the screen to shut down everything



 The screen will prompt when it is safe to turn off the medgraphics unit using the switch at the back