

MGV 100™



The Ultimate NFPA99 Medical Gas Analyzer



RELIABLE

- Most reliable gas sensing technologies.
 - Automatic air calibration.
- Secure data storage.



SAFE

- Robust gas connections.
- Safety warnings.
- No external regulators.



FAST

- All gases measured simultaneously.
 - Fast Gas sensors.
 - Direct gas connection and minimal handling.



CONVENIENT

- Large touchscreen.
- Simple operation and test report generation.
- Light and compact.



www.bcgroupestore.com



www.MGV100.com

Finally, a gas analyzer that is especially and carefully designed for NFPA99 Medical Gas Verifiers!

The MGV100 is the world's only All-In-One NFPA99 gas analyzer which provides MGVs with the ultimate combination of measurement accuracy, speed and convenience in an ergonomic, light and compact design.

The MGV100 is based on AG Instruments patented technology and the "Technology Made To Measure" concept. It was developed by bringing together some of the most experienced piped medical gas verifiers in the world with top gas analysis design engineers to offer you a product of the highest standards.



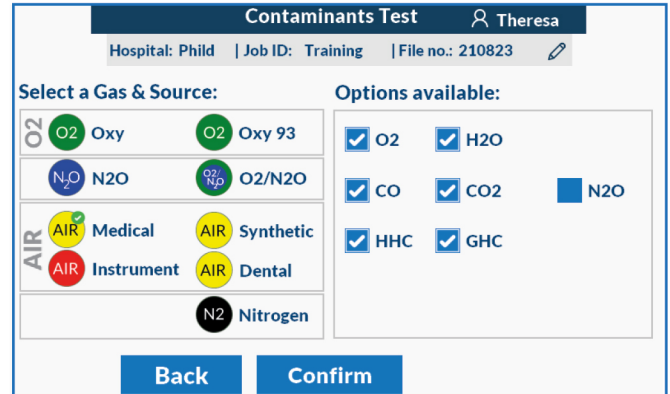
All NFPA99 Gas Testing in One Instrument

- Measures O₂, N₂O, Water Vapor, CO₂, CO, GHC, HHC, gas pressure and vacuum.
- Optional SO₂, NO and NO₂ sensors as per US Pharmacopeia requirements.
- Connects directly to any gas outlet with gas pressure up to 190 psi (13 Bar).
- The most comprehensive, efficient and convenient piped medical gas testing solution in the world.

Reliable Technologies

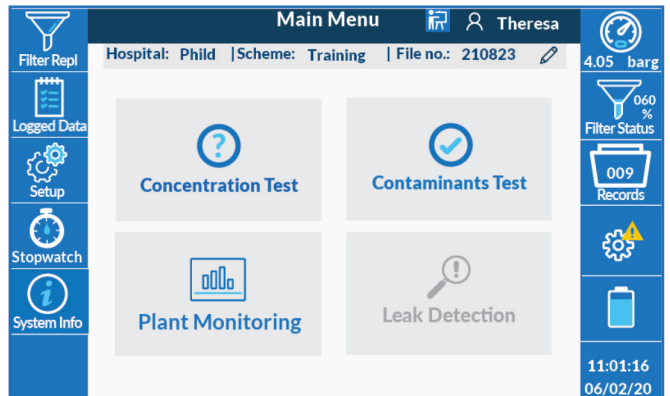
- Simultaneous measurement of all NFPA-99 gases
- Most advanced sensing technologies .
- Infrared Absorption water vapor measurement - much faster than current capacitive, electronic or chilled mirror sensors.
- Infrared Absorption sensors for N₂O, CO₂ and Gaseous Hydrocarbons.
- High stability Electrochemical sensor for O₂ (Optional Paramagnetic sensor).
- High sensitivity Electrochemical cell to measure CO down to 0.01 ppm. Photo Ionization Detector with ppb sensitivity to measure Halogenated Hydrocarbons.

Contaminants Test



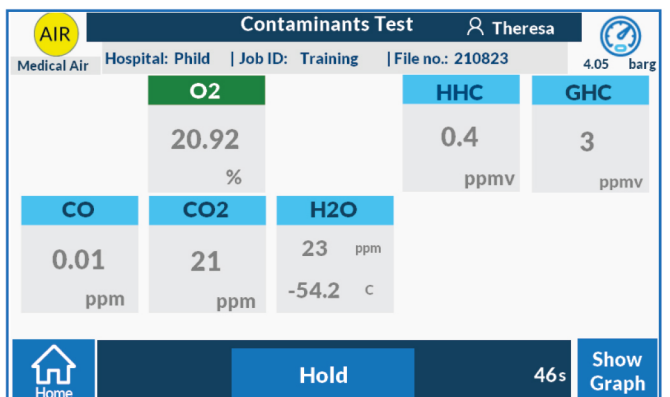
Measures O₂, N₂O, Water Vapor, CO₂, CO, Gaseous HC, Halogenated HC, gas pressure and vacuum.

Home Screen



Concentration and Contaminants Test measurement and plant monitoring.

Contaminants Test Reading



Advanced infrared, electrochemical, PID and (Optional) paramagnetic gas sensors to provide the most accurate results.

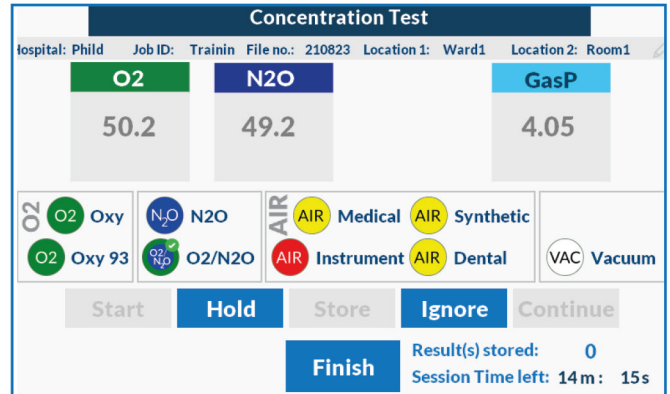
Automatic Air Calibration

- No air bottle is needed to perform air calibration.
- Built-in filter provides dry and clean air for automatic air calibration when needed.
- Precise temperature and pressure compensations for stable readings and reduced user gas calibration.

Simple and Reliable Gas Connections

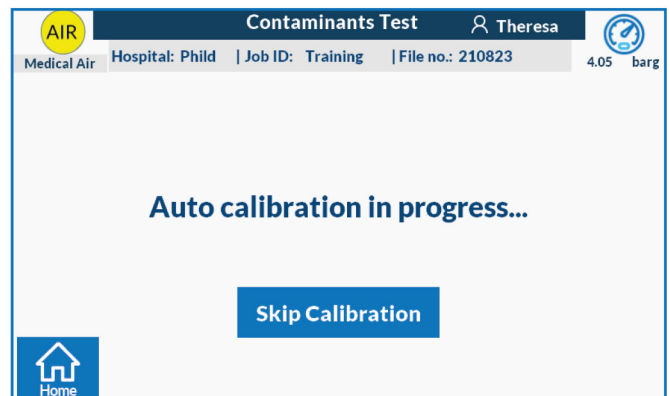
- Direct connection to any gas outlet through a robust stainless-steel braided hose.
- No need for pressure or flow regulators.
- Hose is PTFE-lined and sealed to minimise hose purging time and ensures gas sample integrity.
- Safe gas discharge of hazardous gas using one vent tube.
- Simple operation, gas connections, handling as well as data recording provide optimal and streamlined operation.

Concentration Test Reading Screen



Fast testing and recording of results from multiple gas sources.

Automatic Air Calibration Screen



MGV 100 automatically performs air calibration when required.

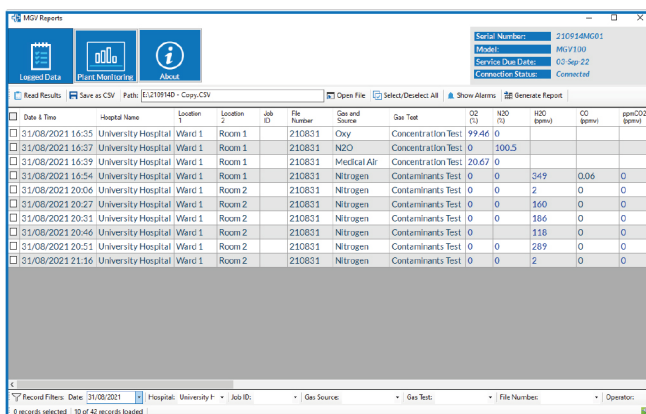
Connecting to Gas Outlet



Secure and Complete Data Recording and Reporting

- Password protected access to ensure the integrity of the tests.
- Test results are shown with out-of-range values highlighted according to NFPA99.
- Gas test results, particulates, oil and odor results are securely stored with sample IDs and user notes.
- Data can be uploaded to the supplied MGVRports PC Software.
- Data can also be exported to a USB memory stick.
- The MGVRports Air plant monitoring option provides real-time logging of gas readings for up to an hour with both tabular and graphic presentation of the results.

MGVRports Software main screen



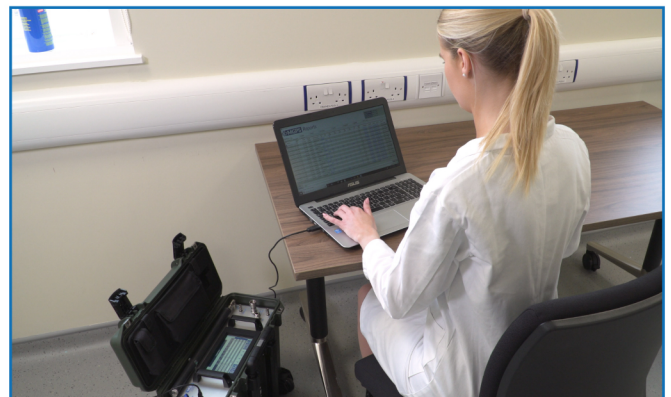
MGVRports software greatly simplifies test report generation

Reading Record Screen

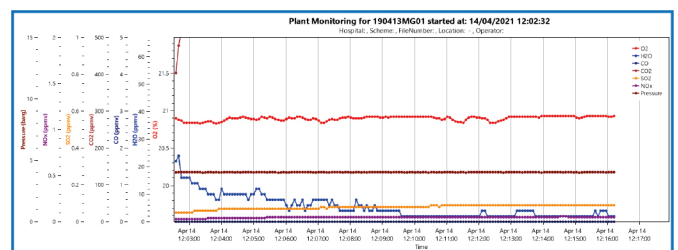
Reading Record						
Hospital: MMS		Scheme: Training		File no.: 180205		
Date&Time: 06/02/19 14:05		Gas&Source: Medical Air		Test: Gas Quality		
Gas	Reading	Units	Gas	Reading	Units	Additional Test Results
O2	20.92	%	NO2	0.03	ppm	Particulates: Passed
N2O		%	SO2	0.02	ppm	Odour: Passed
H2O	23	ppm	%CO2		%	Poly-test: Passed
CO	0.01	ppm		4.05	barg	Oil Impactor:
CO2	514	ppm				>0.05 & <0.1 mg/m3
Note: Ward 2 TU 1 all passed				Operator: Theresa		

Gas readings, particulates, oil, odour results are securely stored with IDs and user notes.

Data Uploaded to Computer



Data can be uploaded to the MGVRports PC Software or exported to USB memory stick.



Air plant monitoring option provides graphical and tabular real-time gas readings.

Maximum Convenience

- Very Compact and light: 11.5 lb/ 5.2kg
- Accessories bag to accommodate everything you need and fits inside the instrument case.

Accessories include:

- SS braided, PTFE lined, sealed sampling hose with inline sintered metal filter.
- 100 L/min and 10L/min restrictors
- Purging T-piece for purging medical gas pipelines before or during measurement.
- Vent tube for hazardous gases.
- Threaded probes to connect your gas fittings to the sampling hose and purge T-piece.
- External pouch to provide access to battery connection and to house a spare battery if more than 8 hours operation is needed as well as providing additional storage.

MGV100 Accessories Set



A full set of accessories are included with the MGV100



The MGV100 is the lightest and most compact All-In-One medical gas analyzer in the world.

Accessories bag fits inside the MGV100 case



The MGV100 and all its accessories fit inside a robust and compact case.

The MGV100 external back pouch



The external pouch allows you to connect a spare battery or store additional accessories if needed.



www.MGV100.com

For sales inquiries and more information about the MGV 100

Please contact:



A world leading provider of test and measurement equipment

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