



MDA Scientific MIDAS®  
Pyrolyzer Module Option

### 3. Re-assembling the MIDAS® detector

- Align the PCB at the top rear of the main chassis with the connector located at the top of the mounting bracket assembly.
- At the same time align the two tubes at the bottom rear of the main chassis with the two tubes located on the bottom of the mounting bracket assembly.
- Slide the chassis backwards on the mounting bracket assembly so that the PCB and connector and tubes engage simultaneously.
- Ensure the PCB, connector and tubes are fully engaged by firmly pushing the main chassis horizontally backwards on the mounting bracket assembly (**WARNING: DO NOT PUSH ON THE LCD AS THIS MAY CAUSE DAMAGE**).
- Align the two fixing screws located at the bottom of the chassis with the screw threads on the mounting bracket assembly.
- Tighten the screws to secure the chassis to the mounting bracket assembly.
- Fit sensor cartridge MIDAS-S-HFX into the sensor cartridge chamber (see diagram 4 and refer to the sensor cartridge installation quick start guide MIDAS-A-021).

### 1. Introduction

The pyrolyzer module option is installed underneath the standard MIDAS® gas detector. The air sample is drawn through the pyrolyzer to the sensor cartridge. The pyrolyzer converts nitrogen trifluoride (NF<sub>3</sub>) present in the air sample into hydrogen fluoride (HF) by means of pyrolysis. The HF can then be measured by the sensor cartridge and the concentration displayed as the equivalent reading in ppm NF<sub>3</sub>.

NOTE: To maintain stated sensor accuracy when using the pyrolyzer, ensure ambient temperature of installation point does not exceed 30°C (86°F). Usage above this temperature may require more frequent bump testing or calibration to confirm working specification.

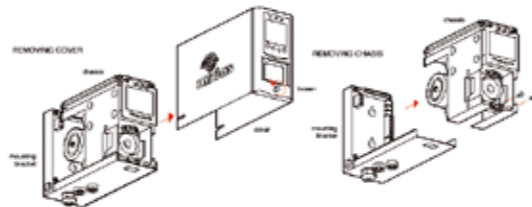


### 2. Fitting the pyrolyzer module

- Isolate the power to the detector
- Unscrew the captive thumbscrew located on the front panel.
- Remove the cover by pulling it forwards off the main chassis (see diagram 1).
- Unscrew the two captive retaining screws located at the bottom front of the chassis.

Diagram 1.  
Removing the MIDAS® cover.

Diagram 2.  
Removing the main chassis.



### 4. Configuration

- After the completion of the start up sequence press the '▲' up button for a few seconds to select the set up menu.
- Enter the passcode (if set).
- Use the '▲' up or '▼' down buttons to select the set up menu '☒' icon and press the '✓' accept button.
- Use the '▲' up or '▼' down buttons to select the set alarms 'ALM' submenu and press '✓' to accept.
- The flashing gas id code is displayed along with the gas cylinder and alarms icon '⚠'.
- Use the '▲' up or '▼' down buttons to change the gas id number to 08-03.

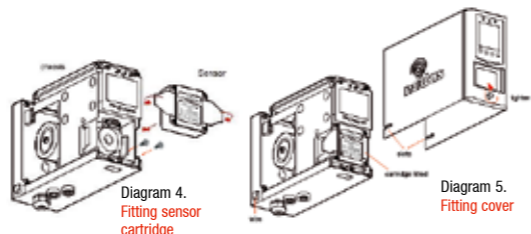


Diagram 4.  
Fitting sensor cartridge

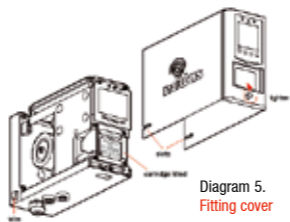


Diagram 5.  
Fitting cover

- Pull the main chassis forwards to disconnect it from the mounting bracket assembly (see diagram 2).
- Thread the connector and wire harness from the pyrolyzer through the rectangular access in the bottom of the mounting bracket.
- Plug the connector into the socket (con5) at the bottom left of the terminal board.
- Offer the pyrolyzer module up underneath the mounting bracket ensuring that the fitting at the top rear of the pyrolyzer mates with the sample inlet port at the bottom of the mounting bracket.
- Align the three screw mounting bosses on the top of the pyrolyzer with the three screw holes in the mounting bracket.
- Insert and tighten the three screws provided (see diagram 3)

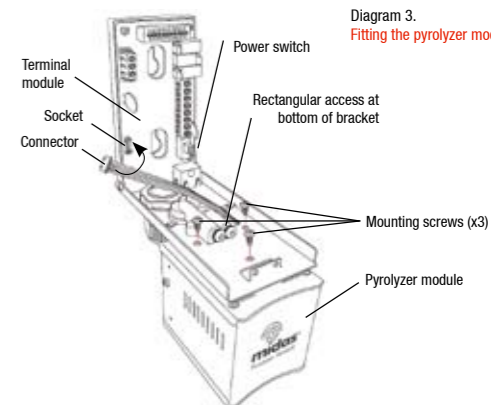


Diagram 3.  
Fitting the pyrolyzer module.

Find out more  
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- Press '✓' to accept.
- Continue to accept or change the rest of the alarm settings. (For further details of these settings refer to MIDAS® operating manual MIDAS-A-001).
- Press '✓' to update all the changes (UPdt displayed) and return to step 1.
- Press 'X' twice to return to normal operation.

Contact Honeywell Analytics for the availability of other detectable gases using the pyrolyzer module.

For further details regarding the MIDAS® Pyrolyzer option refer to MIDAS® operating manual MIDAS-A-001.