



<sup>(1)</sup> **RFID** - Acronym (Radio Frequency Identification) referring to an identification Technology using radio frequency data communication.

<sup>(2)</sup> **LCD** - Liquid Cristal Display Technologie where the image is produced by liquid crystals excited by an electric current.

<sup>(3)</sup> **LED** - Light-Emitting Diode.

# Alarms

## Causes and solutions

### For Green Fume Hood® Technologies

#### Model: M2 - M3 - M4 - M5

| Number of the alarm | Causes                                                                                                                                           | Level of the alarm              | Visual alarm                       | Audible alarm                      | Alarm Message                                                                                                                                                             | Clearable alarm | Solutions                                                                                                                                                                                   |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11A                 | Keyboard used by an unauthorized user (or unauthorized access card in the RFID card reader                                                       | 4                               | Fixed Red                          | Intermittent                       | <b>Alarm 11A</b><br>To use the hood, insert an authorized user card                                                                                                       | NO              | Place an authorized card in the RFID Card Reader                                                                                                                                            |
| 8D                  | This alarm has priority even though it is at level 3. Access card removed while the hood is in use.                                              | 3                               | Flashing Red                       | Continuous                         | <b>Alarm 8D</b><br>Reinsert card. Emergency stop in 00:XX                                                                                                                 | NO              | Reinsert an authorized card into the RFID Reader                                                                                                                                            |
| 8G                  | Fan adjustment problem.                                                                                                                          | 2                               | Fixed Yellow                       | Intermittent                       | <b>Alarm 8G</b><br>Fan X: low rpm speed.<br>Call Maintenance                                                                                                              | YES             | Call Maintenance                                                                                                                                                                            |
| 8H                  | Fan out of order. Rotation speed less than 700 rpm. Faulty fan management electronic card or poor contact of the fan connexion cable             | 4                               | Fixed Red                          | Continuous                         | <b>Alarm 8H</b><br>Fan X: out of order.<br>Call Maintenance                                                                                                               | YES             | Fan X: out of order.<br>Call Maintenance                                                                                                                                                    |
| 8J                  | Semiconductor sensor alarm threshold temporarily exceeded for longer than the "Semiconductor sensor alarm delay".<br>Time configured in minutes. | 2                               | Fixed Yellow                       | Intermittent                       | <b>Alarm 8J</b><br>Semicon S. alarm: main Neutrodine filters near end of life                                                                                             | YES             | Total replacement of main Neutrodine filters imminent                                                                                                                                       |
| 8K                  | Semiconductor sensor alarm threshold permanently exceeded.<br>Saturated Neutrodine filter modules                                                | 4                               | Fixed Red                          | Continuous                         | <b>Alarm 8K</b><br>Semicon S. alarm:<br>Replace main Neutrodine filters                                                                                                   | YES             | Total replacement of main Neutrodine filters                                                                                                                                                |
| 8L                  | Faulty Semiconductor sensor printed circuit board.                                                                                               | 1                               | Flashing Yellow                    | Intermittent                       | <b>Alarm 8L</b><br>Semicon Sensor out of order:<br>Call Maintenance                                                                                                       | YES             | Call Maintenance                                                                                                                                                                            |
| 8M                  | Electrolytic sensor alarm threshold temporarily exceeded for longer than the "Electrolytic Sensor alarm delay".<br>Time configured in minutes.   | 2                               | Fixed Yellow                       | Intermittent                       | <b>Alarm 8ME</b><br>Electro S. alarm: main Neutrodine filters Near end of life                                                                                            | YES             | Total replacement of main Neutrodine filters imminent                                                                                                                                       |
| 8N                  | Electrolytic sensor alarm threshold permanently exceeded.<br>Saturated filter modules                                                            | 4                               | Fixed Red                          | Continuous                         | <b>Alarm 8N</b><br>Electro S. Alarm:<br>Replace main Neutrodine filters                                                                                                   | YES             | Total replacement of main Neutrodine filters                                                                                                                                                |
| 8P                  | Faulty electrolytic printed circuit board.                                                                                                       | 1                               | Flashing Yellow                    | Intermittent                       | <b>Alarm 8P</b><br>Electro Sensor out of order:<br>Call Maintenance                                                                                                       | YES             | Call Maintenance                                                                                                                                                                            |
| 8S                  | Sash open too high: Sash opening greater than the configured alarm threshold.                                                                    | 2                               | Fixed Yellow                       | Intermittent                       | <b>Alarm 8S</b><br>Safety compromised:<br>Lower the sash                                                                                                                  | YES             | Lower the sash                                                                                                                                                                              |
| 8R                  | NFX 15-211 Neutrodine Filter Routine Check.<br>Maintenance Alarm                                                                                 | 2                               | Fixed Yellow                       | Intermittent                       | <b>Alarm 8R</b><br>NFX 15-211 Neutrodine Filter Routine Check. Call Administrator                                                                                         | YES             | Refer to the appropriate section in Administrator Manual                                                                                                                                    |
| 8T                  | The LP Report filter expiration date has been reached                                                                                            | 4                               | Fixed Red                          | Continuous                         | <b>Alarm 8T</b><br>LP Report predicted filter end of life alert                                                                                                           | YES             | Total replacement of main Neutrodine filters                                                                                                                                                |
| 8U                  | Neutrodine filter shelflife exceeded                                                                                                             | 4                               | Fixed Red                          | Continuous                         | <b>Alarm 8U</b><br>Neutrodine lifecycle complete. Change main filters                                                                                                     | YES             | Total replacement of main Neutrodine filters                                                                                                                                                |
| 8Q                  | "End of electrolytic sensor lifetime" alarm                                                                                                      | 4                               | Fixed Red                          | Continuous                         | <b>Alarm 8Q</b><br>Replace Electro Sensor                                                                                                                                 | YES             | Replace Electro Sensor                                                                                                                                                                      |
| 8Z                  | Activated 6 weeks before "End of electrolytic sensor lifetime" alarm                                                                             | 2                               | Fixed Yellow                       | Intermittent                       | <b>Alarm 8Z</b><br>Electro Sensor end of life                                                                                                                             | YES             | Replacement Electro Sensor imminent                                                                                                                                                         |
| Xxxx                | Alarm triggered remotely by safety officer/administrator via gGuard Software.                                                                    | Determined by the administrator | According to the established level | According to the established level | 1-Stop Handling<br>2-Contact safety officer<br>3-Lower the sash<br>4-Warning: Semicon sensor detection in laboratory<br>5-Warning: Electro sensor detection in laboratory | NO              | Contact safety officer/administrator                                                                                                                                                        |
| 8Y                  | Memory Full                                                                                                                                      | 3                               | Flashing Red                       | Continuous                         | <b>Alarm 8Y</b><br>Embedded Memory full.<br>Call Administrator                                                                                                            | YES             | Empty history file. Contact safety officer/administrator                                                                                                                                    |
| 9A                  | Configuration does not comply with the factory configuration                                                                                     | 4                               | Fixed Red                          | Continuous                         | <b>Alarm 9A</b><br>Hardware configuration Mismatch                                                                                                                        | NO              | Check the position of the fan modules in relation to their address. Check the electrical connections. Reconfigure, procedure described in the appropriate section of the Maintenance manual |
| 8V                  | 40°C temperature alarm threshold exceeded in the enclosure                                                                                       | 3                               | Flashing Red                       | Continuous                         | <b>Alarm 8V</b><br>Enclosure Temperature exceeded 40°C.<br>Check heat sources                                                                                             | YES             | Check heat sources                                                                                                                                                                          |
| 8W                  | Top priority alarm 60°C temperature alarm threshold exceeded in the enclosure                                                                    | 3                               | Fixed Red                          | Continuous                         | <b>Alarm 8W</b><br>Critical temperature. Fans stopped. Alert Maintenance/fire personnel                                                                                   | YES             | Stop working in fumehood.<br>If possible, turn off all heat sources.<br>Completely close the sash.<br>Alert all appropriate maintenance and fire personnel                                  |
| 8X                  | Faulty temperature sensor<br>Printed circuit board.                                                                                              | 1                               | Flashing Yellow                    | Intermittent                       | <b>Alarm 8X</b><br>Temperature Sensor out of order                                                                                                                        | YES             | Replace the temperature sensor<br>Printed circuit board.                                                                                                                                    |