Warnings and cautions

WARNING

• Operate and service the SPM Flex gas detector only as specified in this quick start guide and the accompanying manual. Failure to do so may impair the protection provided by the detector and may also void the warranty.
• The battery is not field-replaceable. Return the unit to Honeywell Analytics if a battery replacement is necessary.
• Risk of fire and burns. Do not open, crush, heat above 140°F (60°C), or incinerate. Follow manufacturer’s instructions.
• Protection afforded by the SPM Flex gas detector may be impaired if it is not used according to the manufacturer’s instructions.
• Do not operate two-way radios near the detector.
• Calibration, set-up, and test modes are intended for use by trained personnel or service engineers only. Access to these modes may be passcode protected.
• Follow local and site procedures when working with the SPM Flex gas detector. If needed, ensure that the associated control panel is inhibited in order to prevent false alarms. The following procedures must be followed carefully and performed only by suitably trained personnel.
• Use only accessories and parts meeting or exceeding Honeywell Analytics’ specifications.

CAUTION

• The SPM Flex detector must be installed only by qualified professional personnel in accordance with local codes.
• The safety of any system incorporating the SPM Flex gas detector is the responsibility of the assembler of the system.
• Position a permanently-installed SPM Flex gas detector so that it does not interfere with access to the dedicated circuit breaker.
• Use the supplied power adaptor/connector only. (The adaptor is rated for indoor use only.)
• Do not leave the optics gate open. Doing so may allow pressurized gases to escape through the tubing into the unit and then into the local environment.

Unpacking the box

The contents of the box:
• the SPM Flex gas detector
• the handle assembly (for portable models only)
• power adaptor and cable
• shoulder strap (for portable models only)
• mounting bracket (for fixed units only)
• a CD containing the Technical Manual
• this Quick Start Guide

Save the packaging to re-use for service requests.

External connections

The detector is supplied with weather-sealed connectors for power, Ethernet, and communications (for relays or 4-20 mA). See the SPM Flex manual if the detector is being mounted in a fixed location.

Portable detectors must be charged at least four hours. (They can be used while charging.) Honeywell Analytics recommends leaving the detector connected to the power source/charger when not in use to keep the battery fully charged.

The display

Figure 3 shows the common elements of the display.

The four LEDs provide a-glance information about the current state of the detector:

<table>
<thead>
<tr>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Alarm 1</td>
</tr>
<tr>
<td>Green</td>
<td>Alarm 2</td>
</tr>
<tr>
<td>Yellow</td>
<td>The detector is active</td>
</tr>
<tr>
<td>Blue</td>
<td>Instrument fault</td>
</tr>
</tbody>
</table>

Turning the detector on and off

1. Verify that the rocker switch under the cover is in the on position. (Typically, it is switched off only for transport or service.) Do not power up the detector with a flash drive attached.
2. Press and hold the Power/Cancel button until the green LED begins blinking. The detector will then complete the start-up sequence.
3. To turn the detector off, press and hold the Power/Cancel button for 5 seconds or select “Power Off” from the menu.

Navigation

All SPM Flex menus are navigated by the four buttons shown in Figure 2. Pressing either of the arrows or the Accept/Select button will access the menu from the main display screen. The arrows are used to scroll up and down through lists of options. The Accept/Select button is used to initiate a highlighted option. During navigation, the Power/Cancel button will cancel a command or, when pressed for more than 3 seconds, it will exit to the main display.
1. Navigate to the “Change Chemcassette” menu option.
2. Follow the on-screen instructions to install or change the cartridge.
3. Remove the paper optics card from the gate.
4. Insert the Chemcassette cartridge in the detector (it will fit in only one orientation). The take-up spindle will rotate slightly to allow the cartridge to snap into place easily.
5. Close the cover.
6. A summary of the current configuration will be displayed. Select either to enter monitor mode or to remain out of monitor mode (i.e., idle).

Removing a Chemcassette® cartridge

1. Navigate to Maintenance > Open/Close gate.
2. Select “Open Gate.”
3. Remove the cartridge.
4. Inert the optics card in the gate if the detector will be stored or transported.
5. Select “Close Gate.”

Changing the selected gas

1. While out of monitor mode, navigate to Set-up > Monitoring > Gas.
2. Select “Current gas” and pick the desired gas from the selection box.
3. Select “Save.”

Entering monitor mode

From the main menu, navigate to the “Monitor Mode” option and select “Enter monitor mode.”

1. If a Chemcassette cartridge has been installed, the detector will enter Monitor Mode.
2. If a Chemcassette cartridge has not been installed, a user with the necessary passcode can initiate the Chemcassette wizard. Otherwise, the detector will not enter monitor mode.

Wiring and tubing

The SPM Flex detector has flexible installation options to allow the user to select the one most suitable for a specific application. The 4-20 mA output is a three-wire connection that is configurable as sink, source, or isolated. The detector is equipped with three relays.

<table>
<thead>
<tr>
<th>Sample Tubing Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Inlet</strong></td>
</tr>
<tr>
<td>Flow rate (cc/min.) 100-1200</td>
</tr>
<tr>
<td>Tubing OD, in. (mm)</td>
</tr>
<tr>
<td>Tubing ID, in. (mm)</td>
</tr>
<tr>
<td><strong>Outlet</strong></td>
</tr>
<tr>
<td>Tubing length, ft. (m)</td>
</tr>
<tr>
<td>Tubing OD, in. (mm)</td>
</tr>
<tr>
<td>Tubing ID, in. (mm)</td>
</tr>
</tbody>
</table>

The overall maximum load on the pump between the inlet and the exhaust should not exceed 10 inches H2O.

Use Teflon Fluorinated Ethylene Polymer (FEP) tubing to ensure proper sample transport.

Attaching the shoulder strap

If the shoulder strap is to be used with a portable detector, attach its spring clips to either of the rings on the detector’s handle.

Product label

Have questions?

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