Technical Note

SPMFlex™ Software Release 1.0.6

Honeywell Analytics is pleased to announce the release of Version 1.0.6 firmware software for the SPMFlex™ product line.

Firmware 1.0.6 Update

Firmware update provides improved optics parameter check and optics auto adjustment procedures with extended run time

SPMFlex Firmware 1.0.5 and earlier versions allowed only Honeywell service engineers with a secure pass code to perform optics parameter checks and optics auto adjustments. Customer feedback and field trials of SPMFlex Isocyanate units running in customer sites has shown optics adjustment failure and high background failure conditions at customer sites.

Firmware change summary

The firmware modifications address the optics adjustment for the SPMFlex isocyanate applications without in-line dust filters in dirty or dusty environments.
The firmware has been updated to allow optics to use maximum values rather than rejecting maximum calibrations. In dusty or dirty environments, the instrument will continue to monitor, however the expanded range reduces service.

Factory Optics Calibration – no change

Parameter	Low Limit	High Limit
LED Drive	1200	2500
Primary PD	3180	3220
Reference PD	1300	3100

Service Optics Calibration

Parameter	Low Limit Original → Modified	High Limit Original → Modified
LED Drive	1200	3500
Primary PD	3180→ 2300	3220
Reference PD	1300	3500 → 3995

Optics Verification

Optics Auto Adjust	Original → Modified	
Limit	White	Gray
Max	3400	2600
Min	3000 → 2100	1800 → 1200

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The Optics Verification numbers are going to be proportional to the OAA (Optics Auto Adjust) numbers. Optics verification numbers are same for Factory & Service.
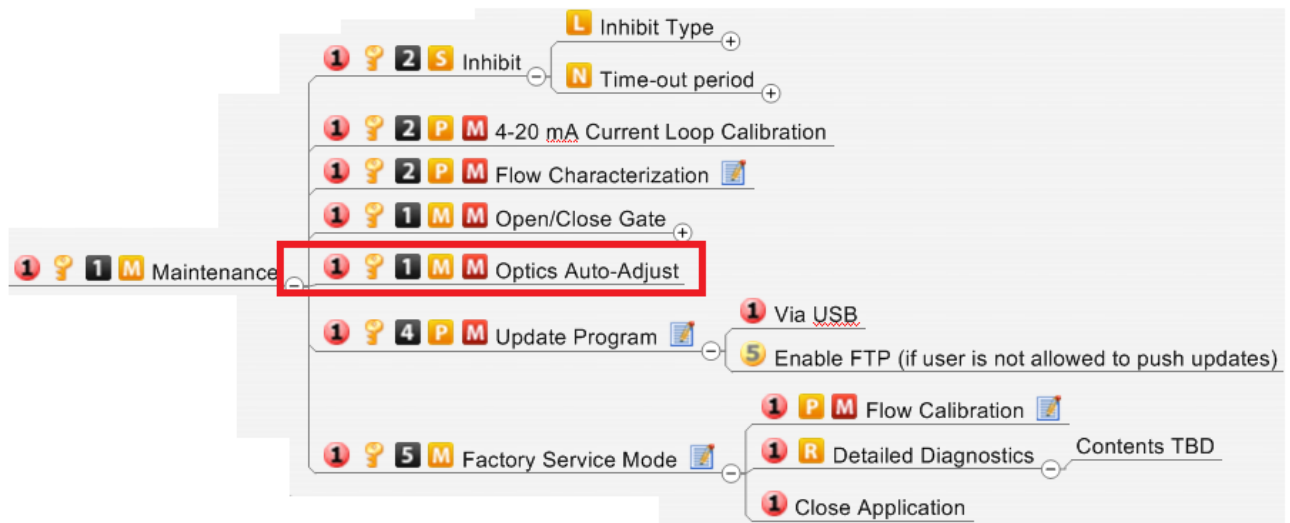
User Interface (UI) Menu Changes
Menu structure of UI application has been modified so a routine maintenance engineer can access optics adjustment functions and check the optics counts.

- Optics auto adjustment menu moved up from Maintenance →Factory Service menu to "Maintenance" menu

- Detailed Diagnostics menu moved from Maintenance →Factory Service menu to "Review" menu

Access Level Changes
Access level for the menu items below has been changed from Honeywell service engineer to routine maintenance engineer.

- Optics auto adjustment
- Detailed diagnostics

Installation of Firmware 1.0.6:

1. Insert USB flash drive with Firmware Package Ver. 1.0.6 to the USB Port
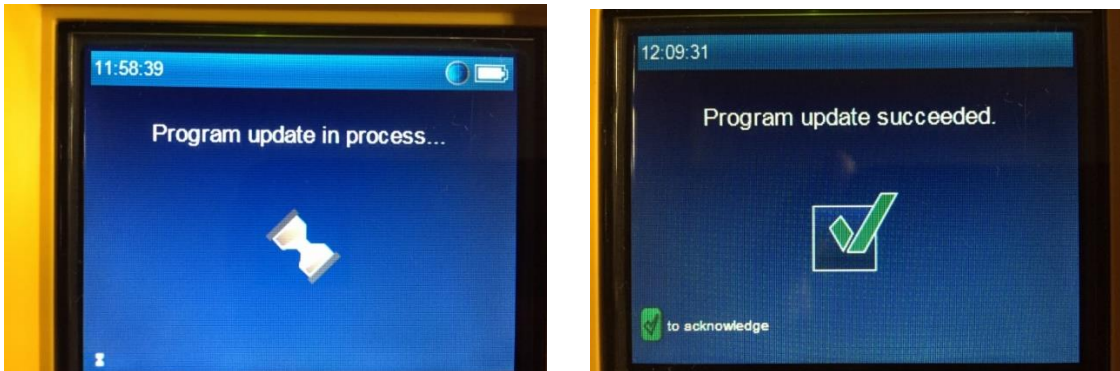

2. Go to *Update Program → Maintenance Mode*

3. Select "*SPMFlex_Package_1.0.6*"

4. Wait until completion of the Firmware update. Do not power off during update process.

Optics Parameter Check Procedure with Optics Test Card:

1. Exit Monitor Mode. Select *Monitor Mode* → *Out of monitor mode* → *Main Menu*

2. To Remove Chemcassette Tape. Select *Main Menu → Maintenance → Open/Close gate → Open gate → Gate is opened.* Remove Chemcassette Tape.

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3. Insert Optics Card - White Chip. Select *Open/Close gate* → *Close gate* → *Gate is closed*. Ensure gate is closed.

Note: Ensure gate is closed!

4. Check & Record Optics Parameters. Select *Maintenance* → *Main Menu* → *Review Mode* → *Detailed diagnostics*. Record Optics Parameters. Take Screen Shot.

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5. To Remove Optics Card. Review Mode. *Main Menu → Maintenance → Open/Close gate → Open gate → Gate is opened.* Remove Optics Card.

Note: Remove Optics Card!

6. To install Chemcassette® tape. *Maintenance → Open/Close gate → Close gate → Gate is closed*. Install Chemcassette tape.

Note: Install Chemcassette tape!

7. To Start Monitoring. *Maintenance → Monitor Mode → Enter monitor mode*.

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Optics Auto Adjustment Procedure with Optics Test Card:

1. Exit *Monitoring Mode* → Enter *Maintenance Mode*

2. Select *Optics Set Up / Auto-Adjust*

3. Remove Chemcassette Tape. Insert Optics Card – White Chip. Select *Continue*.

4. Remove Optics Card – White Chip. Install Chemcassette Tape. Select *Continue*.

#END

If for any reason the update was not correctly completed, please contact your local Honeywell Analytics service team.

The updates are supplied via USB flash drives and with optics calibration card included.

Software update 1.0.6 will not be available via the Website as normal due to the need for an optics calibration card to be able to use the new function.

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