

KAYE AVS Instructions for Sensor Calibration

1. Starting the Kaye Validator AVS Software

- On the Console home page, click the **Kaye Validator AVS** tile. The Kaye Validator AVS user login screen appears, followed by the Hub page. The Hub page provides access to the major functions of the Kaye Validator software.

- Login:
 - Admin
 - AVS2018

2. Creating/Modifying a Setup

The setup defines everything required to calibrate sensors, run qualification studies, and verify sensor calibration. The setup is created/modified using the Kaye Validator software. The Console does not have to be connected to the Kaye Validator AVS to create/modify setups.

Procedure

1. On the Hub page, click Assets tile, then on Asset Details page click **Setups** tab.
 2. Existing setups are listed by the date and time the files were saved.
 - To create a new setup, click **New**, enter up to 35 characters to describe the setup, and click OK.
 - To modify an existing setup, select the setup from the file list and click on edit icon.
 - The Sensors screen appears.
1. Add, modify or delete sensor configurations.
 - Select sensors by clicking a sensor tiles in the SIM.
 - To add or modify a sensor definition, enter/modify the sensor label and sensor description, and select a sensor type. Specify scale factors as required. To automatically number multiple sensor definitions, select both **Automatic Numbering** check boxes to append 2 digits in sequence to the sensor label and description label. Click **OK**.
1. To remove sensor location(s), click the sensor tile again to deselect it.
 2. Identify/modify groups.
 - Click the **Group Sensors** tab.
 - Change group titles or add groups as necessary (up to 25 groups, 35 characters) in the group list box.

1. Assign sensors to groups.

- Select a group from the list box.
- Assign sensor locations as necessary.
- Repeat for all groups as necessary.

Note: Sensors of different types should not be mixed in a group.

1. Specify calculations and events.

- Click the **Calculations** tab.
- Specify calculations as necessary.
- Define the event as necessary.
- Repeat for all sensors as necessary.

1. Specify calibration parameters.

- Click the **Calibration** tab.
- Set the Temperature Setpoints as necessary.
- Set the Stability Criteria as necessary.
- Set the Deviation Criteria as necessary.

2. Specify qualification study conditions.

- Click the Qualification tab.
- Click the Modify button.
- The Start/Stop Conditions screen appears.
- Set the Start/Stop Conditions as necessary & click OK.
- Set the Data Storage File Rate and Kaye Validator Printer Rate as necessary.
- Set the Output Relay to actuate based on “event” if necessary.

3. Save the setup file.

- Click **Save**.
- The Save Setup File screen appears.
- Enter User Id & password.
(admin users have every privilege; general validation users can also perform this task)
- Click **OK**.
- The Setup tile screen appears.

4. Click **home** to return to the Home page.

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Sensor Calibration

Calibrate sensors before running the qualification study. Standalone sensor calibration requires a Kaye temperature reference and IRTD.

Procedure

1. Place the Kaye Validator AVS (with temperature reference and IRTD connected) in a location with stable and even temperature, not exposed to any local heating or cooling sources (i.e., close to a sterilizer, an open door causing a draft, etc.).

2. Power up the Kaye Validator AVS and let it run for approximately 30 minutes in the operating environment in order to acclimate to the ambient temperature

Note: The fan of the temperature reference should not blow toward the Kaye Validator AVS.

3. Insert the thermocouple sensors into the temperature reference.

4. Load the setup from Console into the Kaye Validator AVS.

On Console, go to Set Up tab of Asset details screen, select Set Up file & click on initiate calibration button.

5. Select sensors to calibrate.

Select Sensors on sensor selection screen appears.

To select individual sensors by clicking on it or use select all button.

Click Initiate Calibration button.

6. Calibrate sensors.

Press **Start**.

The Kaye Validator AVS automatically performs sensor calibration at the specified setpoints.

When calibration is complete -

Press **Save** to save the file.

