



SAM OEM Setup and Calibration Guide





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Commissioning Guide



**Items that need to be tested and setup
BEFORE pump testing**



Checklist Prior to Pump test

Testing valves in manual mode

- On UV1100 (SAM Control Center) touch manual mode
 - Cycle each valve fully open and closed individually while making sure you are physically controlling the correct valve
- On UV800 (Pump Controller)
 - Touch the TANK tab and operate the “*tank to pump*” and “*tank fill*” valves fully open and closed

Testing Audio/Volume

- On UV800 (Pump Controller) enter **6161** to make sure volume is set at 100%
- Press green “Play Button”
 - Play this enough times to make sure all 4 speakers are working
 - CYCLE POWER



MIV-A component testing – (These items should be tested with air on the system)

- On UV800 (Pump Controller) enter password **6060**
 - Cycle all the inputs and output on the screen to make sure the components function (inputs/outputs/can outputs)
 - CYCLE POWER

Sensor module component testing

- On UV800 (Pump Controller) enter password **6565**
 - Cycle all the inputs and output on the screen to make sure the components function
 - CYCLE POWER

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**Items that need to be tested and setup AT
pump testing**



Checklist During Pump test setup

- ❑ **Calibrate gear box temp (5959)**
 - Use a temp gun to find the hottest part of the gear box (usually around the upper part of the bearing housing) after running the pump for approximately 20 mins
 - **Note:** A pump house with little ventilation and/or an exhaust system too close to the gearbox may need a heat shield because of abnormally high temperature readings.
- ❑ **Voltage Calibration offset (7575)** also you can adjust the voltage warnings here
 - Use this to make the dash panel voltage and UV800 (Pump Controller) voltage readings match if the dash is 13.8 and the UV800 is reading 13.5 then enter “.3” for the offset now the UV800 will show the correct voltage or 13.8
- ❑ **ITL (water level) Calibration (7474)**
 - Follow on screen instructions and only fill the tank to 1 inch below the top of the tank (never start a calibration with water in the fill tower), First set the full level then discharge in manual mode till you get cavitation (water level is at the top of the tank-to-pump valve) close the discharge, set the empty level, touch save.
- *While pump testing there is a part that you will need to close all open discharge valves within 15 seconds, to accomplish this enter password (5353) while in Manual Mode, you may need to enter the date then press the “close valves icon” stop sign in the bottom right*



<https://smhttp-ssl-61500.nexcesscdn.net/media/pdf/Setup and Custom Settings 1.mp4>

NOTE: some passwords may have changed since these videos were made.

These calibrations below are only needed if a valve is out of calibration or if the pressure is inaccurate, please watch the video below before performing these calibrations.

- Pressure sensor calibration (50505)
- Valve Position calibration (50505)
- Flow sensor calibration (50505)

<https://smhttp-ssl-61500.nexcesscdn.net/media/pdf/Valve Calibration Final.mp4>



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**This should be done just after pump test
so that the pump is up to temperature**



Inputting Pump test DATA

This should be done just after pump test so that the pump is up to temperature

1. Hold down top left menu button on UV800 (smaller screen)
2. Enter password **5353**
3. Enter date and time, if prompted, touch save
 - if the Date/Time does not popup skip to step 6
4. Hold down top left menu button on UV800
5. Enter password **5353**
6. Touch import sensor data (if you are not entering this information following the pump test you will need to manually enter data)
7. Input pump test data in the correct fields
8. Touch save

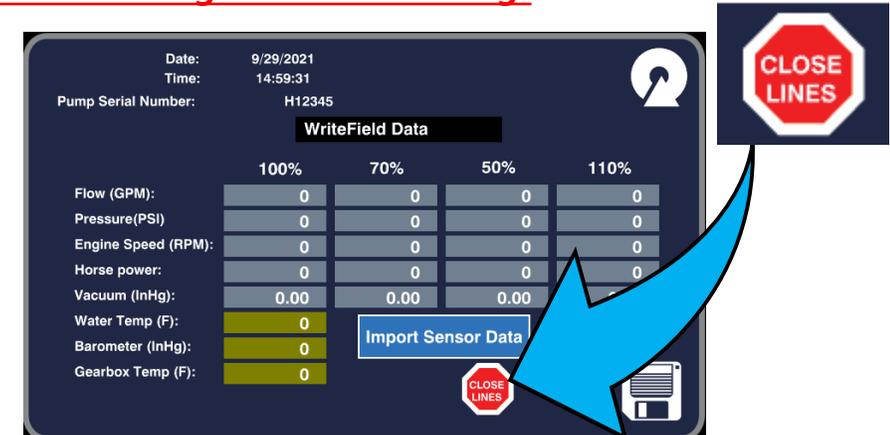
This is also where you can close the lines to test the pressure relief system during the NFPA testing.

1. Hold down top left menu button on UV800 (smaller screen) (while you have the lines open and pumping in Manual Mode)
2. Enter password **5353**
3. Touch the stop sign at the bottom of the screen

More SAM information and videos below

Sign into your account or create an account to have full access to the manuals and videos.

<https://www.haleproducts.com/catalogsearch/result/index/?cat=0&index=document&q=sam>



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TECH PASSWORDS



TECH Passwords

1100	Function
23456	Discharge Quicksets Menu (Ok for Customer use)
59326	Restart to Bootloader (For Updating Operating System Files)
50505	Master Tech Password (NOT ok for Customers)

800	Function	Description
311	Main Matrix Menu (Same as holding Menu button)	Units, presets for end users
5353	Write Field Data	ULC Test Card
5757	Date/Time	Update date and time
5858	Waterflow Calibration	Calibrate Water flow
5959	Sensor Calibration	Barometer and temp sensors
6060	MIV-A TS	Individually tests MIV outputs/inputs
6262	Governor Settings (Also on Main Menu)	Higher level settings not covered in 311 password
6363	Name Cameras	
6565	Sensor Module TS	Individually tests Sensor Module outputs/inputs
7474	ITL CAL screen	Calibrate Itl (full to empty)
7575	Voltage Adjustment	Calibrate voltage readout
7773	Onboard Water Tank Low Level Warning Set Point - active at 5/8 full point on the ITL-40	
7774	Onboard Water Tank Low Level Warning Set Point - active at 4/8 full point on the ITL-40	
7775	Onboard Water Tank Low Level Warning Set Point - active at 3/8 full point on the ITL-40	
59326	Restart to Bootloader	For Updating Operating System Files
43275	Reset Gearbox Oil Life	
78674	Reset Pump Hours	
84330	Don't show VIDEO tab (0 video inputs)	
84331	1 Video Input	
84332	2 Video Inputs	
84333	3 Video Inputs	
98765	Audio Testing	
82650	Tank Level OFF (Tank Tab)	
82651	Tank Level ON (Tank Tab)	
86820	Hide Total Water Flow Card	
86821	Show Total Water Flow Card	

