

# ENVIRONICS TECHNICAL BULLETIN #122

## Environics Model 6100 MULTI-GAS CALIBRATOR

### Software Update Information

Old Revision \_\_\_\_\_ New Revision \_\_\_\_\_

This bulletin describes recent software changes and enhancements to the Model 6100. These features are covered briefly here, and are explained in more detail in the latest version of the user's manual.

Locate the revision of software previously installed in the system. The features listed above that point have been added since that revision of software. If you are upgrading software yourself, read these notes carefully. Some software updates may require re-entry of data or recalibration of certain items.

Revision	New Feature	Description
1.33-03 1.33-04	Enhanced Powerup Mode	Added ability to select SCHEDULE 1 as an option for Powerup Mode
	Enhanced Program Mode	Added additional run options to the Run Schedule menu. Any scheduled item can now be skipped or run immediately without waiting for its normally scheduled start time.
1.33-02	Status Input Programming	Added the ability to program the function assigned to each Status Input line. NOTE: The Status Input operation has changed significantly from previous versions of the software. Status Inputs may need to be reprogrammed in the Status Input Setup menu to match the users requirements.
	Program Mode	Program Mode added to software, which allows creating sequences of CONC mode settings, which can be scheduled to run at a particular time/day of the week.
1.32-xx	Enhanced Status Output	The Status Output lines can now be programmed to activate when a particular Mass Flow Controller is operating.
1.30-xx	Programmable Status Outputs	The Status Output lines of the 6100 can now be programmed to activate when one or more Conc Modes files is recalled and run. Status outputs 1&2 are no longer activated directly by MFC 1&2
1.29-xx	Enhanced Remote Mode	Remote Mode now includes commands for FLOW mode and to retrieve OZONE parameters such as temperature & pressure.
1.28-xx	=NOTES=	If performing a software update in the field, please be aware of the following: <ul style="list-style-type: none"> <li>Updating the software will erase any stored CONC mode settings, and all gas PORT assignments. No other data (including calibration data) is affected.</li> <li>Pressure correction will be disabled by default. Before enabling ozone pressure correction, the ozone must be recalibrated.</li> </ul>
	Multi-Component Cylinders	The 6100 software now supports the ability to set up cylinders which contain multiple gases. Up to 20 unique gases may be defined, with each gas assignable to any gas port. The PORTS (port setup) function has been renamed GASES (gas setup)
	Concentration Mode Enhancements	Concentration Mode now has additional VIEW capabilities. These include the ability to view Ozone Generator parameters, MFC Flow rates, and Multicomponent Gas concentrations. Also, the number of Load/Save registers has been expanded to 99, and additional error checking has been added to generate a warning "beep" when trying to operate the 6100 flow controllers outside of their range.
	Ozone Pressure Correction	Pressure inside the ozone generator can change due to changes in ambient pressure or restrictions created by plumbing connected to the output of the system. Ozone pressure correction allows the system to adjust the intensity of the ozone generator lamp in response to varying pressure, to account for the varying amount of oxygen compressed in the ozone generator.
	Menu Changes	The CALIB (calibration) function has been renamed SYSTEM. A password feature has been added to prevent unauthorized changes to the calibration data.
	Remote Mode Changes	Additional commands and error codes have been added to improve diagnostic ability and allow for improved error reporting.  The "CONC PORT" command has been replaced by the "CONC GAS" command. Customers using the Remote Mode may need to change their communication software to accommodate this change.
1.27-xx	Powerup Mode	The software now has the capability to automatically power up into the REMOTE MODE. In the event of a power failure, the 6100 can automatically power up into Remote Mode when power is restored. This feature may be desirable for systems that operate unattended via RS232 Remote Mode commands