

# LC Series PLC Controller

## LCS Software Change Log

<b>LCS6000.3.0.0</b>	<b>Status:</b> Active	<b>Release Date:</b> 07.13.2018
<b>Update Includes</b>	<p>This release adds the following new features:</p> <ul style="list-style-type: none"> <li>• Fix: Staging issue in Zone 2 and Zone 3 has been corrected.</li> <li>• Fix: Update Baud Rate from 19200 to 38400 and changed stop bits from 1 to 2 to correct communication errors when more than 5 units are used.</li> <li>• Added: Modbus registers are now available to provide wall unit information to end user SCADA or BMS systems</li> <li>• Fix: Alarm Relay configuration is now saved through a power cycle.</li> <li>• Fix: Power Loss group for Zone 1 Alarm relay output no longer drives Zone 2 and 3 alarm relay output.</li> <li>• Fix: User interface has been fixed to allow configuration of High Sensible mode for zone 3.</li> <li>• Fix: Unit Information now correctly shows the blower status of each unit.</li> <li>• Fix: Humidifier Relay Output will no longer activate when zone humidity sensor fails.</li> <li>• Fix: Corrected °F display issue on unit information screens 2 - 14.</li> </ul>	
<b>Know Issues</b>	<ul style="list-style-type: none"> <li>• Build number is displayed on software information screen</li> <li>• IP configuration must be done through the multiple button press alarm + enter.</li> </ul>	
<b>Software Compatibility</b>	<ul style="list-style-type: none"> <li>• MTS1000.3.0.0</li> <li>• WTS1000.3.0.0</li> </ul>	
<b>Hardware Compatibility</b>	<ul style="list-style-type: none"> <li>• LC6000-100</li> </ul>	
<b>Operating System Version</b>	<ul style="list-style-type: none"> <li>• 4.3.0</li> </ul>	

<b>LCS6000.2.1.0</b>	<b>Status:</b> Discontinued 07/13/2018	<b>Release Date:</b> 04/06/2018
<b>Update Includes</b>	<p>This release adds the following new features:</p> <ul style="list-style-type: none"> <li>• Changed: Unit information screens have been updated to accommodate W***AP &amp; WR models.</li> <li>• Changed: Unit information screens now show last 24 hour information instead of last hour.</li> <li>• Added: High Sensible toggle added to each zone for the WR units.</li> </ul>	
<b>Know Issues</b>	<ul style="list-style-type: none"> <li>• First unit off in FIFO staging does not reflect staging order. All Units after will follow staging order.</li> </ul>	
<b>Software Compatibility</b>	<ul style="list-style-type: none"> <li>• MTS1000.2.1.0</li> </ul>	
<b>Hardware Compatibility</b>	<ul style="list-style-type: none"> <li>• LC6000-100</li> </ul>	
<b>Operating System Version</b>	<ul style="list-style-type: none"> <li>• 4.3.000</li> </ul>	

<b>LCS6000.2.0.0</b>	<b>Status:</b> Discontinued 07/12/2018	<b>Release Date:</b> 01/31/2018
<b>Update Includes</b>	<p>This release adds the following new features:</p>	

# LC Series PLC Controller

- Added: Staging order can now be set to LIFO, FIFO, or Demand. This replaces previous staging options.
- Added: New setting for maximum number of units operating per zone which allows all unit to be used in rotation to achieve even run time on each unit.
- Added: Staging of wall units to dehumidify in each zone based on demand of each zone.
- Added: User can now select which units are allowed to run while operating on generator supplied power.
- Added: High and Low humidity alarm set points per zone
- Added: Identify lead unit per zone in the system configuration menu
- Added: Emergency Ventilation mode has been added to vent units in configured zones when a hydrogen leak has been detected.
- Added: Emergency Cool will utilize the economizers in a high temperature scenario to cool the shelter as long as the temperature outside is lower than the temperature inside.
- Added: Date and time now sync to the wall units allowing for a simpler site setup.
- Added: Wall unit alarms can now be cleared from the LC6000.
- Added: Each zone now utilizes PID control for heating and cooling staging of equipment.
- Added: Sensor averaging is now configurable. The user can determine to average all sensors, only the LC sensors, or LC sensor and any wall unit return air temperature with the blower running.
- Added: Passwords can now be reset by Technical services if user has altered and forgotten passwords.
- Added: IP configuration is now available in settings menu.
- Added: LC will now display model number, serial number, and software version in information quick menu.
- Added: Each zone will now trigger an alarm if no sensors are available for temperature control.
- This alarm will trigger a respective relay out to notify of the event.
- Changed: Structure of the System Configuration Menu has now been organized into zones.
- Changed: New Modbus standard was implemented to allow easier integration of future products and standardize the equipment communication.
- Fix: Continuous blower operation made more reliable
- Fix: Humidifier selection now allows user to select no humidifiers if previously configured for humidifiers.
- Fix: Comfort mode can now easily be disabled from the quick menu
- Removed: Consideration for unit mode is no longer required. Replaced with maximum number of units per zone.

<b>Know Issues</b>	•
<b>Software Compatibility</b>	• MTS1000.2.0.0
<b>Hardware Compatibility</b>	• LC6000-100



# LC Series PLC Controller

<b>Operating System Version</b>	<ul style="list-style-type: none"> <li>• 4.3.000</li> </ul>
---------------------------------	---

LCS6000.1.1.0	Status: Discontinued 04/06/2018	Release Date: 02/17/2017
<b>Update Includes</b>	This release adds the following new features: <ul style="list-style-type: none"> <li>• Fixed issue with zone temperature averaging only on unit demand</li> <li>• Added heat consideration to temperature priority mode</li> <li>• Changed differential labels to on off</li> <li>• Changed heating and cooling differential labels to on and off.</li> <li>• Changed heating and cooling differentials to match wall unit defaults.</li> <li>• New Feature: Added option to select which wall unit alarms will actuate the zone alarm relay outputs</li> <li>• Adjusted usable ranges on Modbus variables</li> <li>• Added LC smoke alarm communicated variable to override continuous blower</li> </ul>	
<b>Know Issues</b>	<ul style="list-style-type: none"> <li>• Humidifier type selection cannot be set back to none</li> </ul>	
<b>Software Compatibility</b>	<ul style="list-style-type: none"> <li>• MTS1000.1.0.8</li> </ul>	
<b>Hardware Compatibility</b>	<ul style="list-style-type: none"> <li>• LC6000-100</li> </ul>	
<b>Operating System Version</b>	<ul style="list-style-type: none"> <li>• 4.1.001</li> </ul>	

LCS6000.1.0.8	Status: Discontinued 02/17/2017	Release Date: 08/18/2016
<b>Update Includes</b>	This release adds the following new features: <ul style="list-style-type: none"> <li>• Initial Release</li> </ul>	
<b>Know Issues</b>	<ul style="list-style-type: none"> <li>• Zone temperature only calculates average when demand is present</li> <li>• Temperature priority mode only considers cooling mode</li> </ul>	
<b>Software Compatibility</b>	<ul style="list-style-type: none"> <li>• MTS1000.1.0.8</li> </ul>	
<b>Hardware Compatibility</b>	<ul style="list-style-type: none"> <li>• LC6000-100</li> </ul>	
<b>Operating System Version</b>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>	

## Software Status

<b>Active</b>	Current version of software.
<b>Available</b>	Stable version available from website or Bard Technical Service.
<b>Discontinued</b>	Software version no longer supported, recommend updating to the Active version.