



Release Notes

Arcturus firmware version 5.0.20.1

Scope

This document describes the changes in Arcturus firmware from version 5.0.15.1 to version 5.0.20.1. This version of Arcturus firmware requires use of AutoLoad Plus version 3.1.137 or higher.

Important note for channel bank users

Version 5.0.17.0 introduced a new feature that allows for channel banks to be assigned to specific users for the web interface. When updating to the current firmware version from a version prior to 5.0.17.0, existing channel bank definitions can be retained by following these steps:

1. Connect to Arcturus with AutoLoad Plus version 3.1.126.
2. Create a backup configuration file by selecting File->Save to file.
3. Upload firmware to the current version on to the Arcturus using the Burk Firmware Loader.
4. Reconnect to the Arcturus using AutoLoad Plus 3.1.126.
5. Restore your configuration by selecting File->Open from file and selecting the file saved in step 2 above and save to the unit with File->Save.
6. Update AutoLoad Plus to the current version.

After these steps are completed, users will be defaulted to no channel access. Users must be assigned access to the appropriate channel banks after the update in the Users dialog box using AutoLoad Plus.

Changes from firmware version 5.0.19.5 to version 5.0.20.1

New Features and Enhancements

Selective monthly Jet Flowchart and Macro scheduling:

AutoLoad Plus now allows you to leave a time slot empty for a particular month effectively disabling a scheduled macro from running that month.

Enhanced calendar scheduling options for Macros:

The macro calendar times for Pre-Sunrise and Post-sunset are now set in local time. Sunrise and Sunset times are set in standard time. User 1 and 2 times can now be configured to operate in standard or local time.

Macro command added to enable or disable alarm monitoring:

A Set Site Limits command has been added to macros that can enable or disable site limits. If Site Limits is disabled, all channel and system alarms are muted for the selected site.

Changes from firmware version 5.0.17.3 to version 5.0.19.5

New Features and Enhancements

Emails can now be automatically sent when alarms are no longer active:

A new option is available on Arcturus to send an email alert when alarm conditions are back to normal.

Increased maximum value for web interface timeout:

The maximum value of 48 hours can now be used for the web interface timeout setting.

Added support for unsigned integer data types using SNMP SET commands:

SNMP SET commands can now support an unsigned integer data type as a parameter.

Added support for Arcadia:

Support has been added for Arcadia, secure mobile cloud-based site management software.

New conditionals statements added to Jet Active Flowcharts:

The specific month or specific day of the month can now be added a conditional test using Jet Active Flowcharts.

An event is now logged whenever a meter channel is calibrated:

Arcturus now writes a message to the event log when a meter channel is calibrated.

Warp Engine connections now track the number of uncleared alarms:

An uncleared alarm count has been added to the Warp Engine protocol allowing users to see the number of uncleared alarms for a site.

Resolved Issues

Jet Active Flowchart storage on Arcturus is no longer cached:

AutoLoad Plus no longer stores the Jet Active Flowchart data in the AutoLoad Plus cache file.

Arcturus ignores non-numerical characters in SNMP strings:

SNMP meter values that are of string type and contain non-numerical characters are now display properly.

Virtual equations can now directly reference timer channels as operands:

Users can now directly access timer channel data to perform math and logic calculations in a virtual channel.

The next capture time is now properly calculated:

Arcturus Captures feature calculates the next capture time properly based on the user specified capture interval.

Commands now honor the version flag for an SNMP device:

Commands sent to SNMP version v2c agent devices now execute properly.

Site name was removed from the channel bank drop-down menu:

The channel bank drop-down list on Arcturus web page no longer includes the site name as a selection.

Arcturus site name is now displayed in link lost alarms:

When the site to site communication link is disrupted, the alarm log will not display “Missing:” followed by the name of Arcturus it lost communication with.

Changes from firmware version 5.0.17.0 to version 5.0.17.3

New Features and Enhancements

Internal communications for the display module have been enhanced:

The communication protocol for the display module has been further enhanced including improved handling of error bits.

Resolved Issues

Date and time can now be set from the front panel touch screen display:

Date and time changes can now be set from the touch screen display thus no longer requiring AutoLoad Plus to make the change.

The Captures feature has been enhanced to ensure proper sample times:

The process for executing Captures has been enhanced to ensure that the provisioned capture interval is maintained.

The SNMP agent now validates the assigned port:

A validation check has been added to Arcturus Touch to protect against assignment of the same port number to both the SNMP Agent and SNMP Manager.

Changes from firmware version 5.0.16.8 to version 5.0.17.0

New Features and Enhancements

Arcturus web page channel access privileges have been enhanced:

The number of user configurable channel banks has been increased from 16 to 32 and web page access to the channel banks can now be assigned to specific user accounts. The user account setup in AutoLoad Plus now has a column for channel banks that can be used to assign specific channel banks to users. User accounts that do not have “All Channels” access will also be blocked from direct access to the macros section of Arcturus web page. If a user needs access to macros and all channel access is not granted, macros can be mapped to available command channels and users can be granted access to just the macros they need by adding them to the user’s assigned channel bank(s). AutoLoad Plus 3.1.127 or higher is required for this feature.

Changes from firmware version 5.0.15.1 to version 5.0.16.8

New Features and Enhancements

An error is now logged when Arcturus is unable to sync with a designated time server:

An Arcturus unit configured to synchronize with a Network Time Protocol (NTP) server will now record an error in the event log if communication is lost to the NTP server.

The Captures feature now displays timestamps with 10 millisecond resolution:

Captured events are now recorded with a resolution of 10 milliseconds, improving accuracy and consistency of data.

The SNMP Plus manager in the V5 Arcturus now supports SNMP V2c:

Arcturus SNMP manager now supports communication with SNMP devices running SNMP V2c.

A new SNMP OID has been added providing the date and time of the most recent configuration change:

A new OID has been added to Arcturus MIB file that returns a date and timestamp indicating the last time the configuration was changed.

Internal communications with the display and RSI modules have been enhanced:

The communication protocol for the display and RSI modules has been enhanced to include additional error handling and logging.

SNMP communications have been enhanced to include automatic network verification:

Arcturus now automatically tests network connectivity to any SNMP device that fails to respond to an SNMP request to determine whether the unit is offline or an individual Object Identifier (OID) is non-responsive.

Resolved Issues

Email templates are now properly read by AutoLoad Plus:

When a connection is made to Arcturus using AutoLoad Plus, the macro email templates are now downloaded properly preserving the integrity of the email template text.

The Captures feature now downloads properly using a modem connection:

For sites that use a modem connection, Captures are now download properly into AutoPilot.

The Captures feature now saves the proper meter alarm limits:

Meter thresholds are now saved properly on captured events.

The SNMP meter alarm threshold OID description has been updated:

The “meterAlarmThreshold” OID has been updated to include return values for threshold limits. The list of valid return values include -2 - Low Critical, -1 - Low Warning, 0 - Normal, 1 - High Warning, 2 - High Critical and 3 - No Data.

The SNMP status alarm threshold OID description has been updated:

The “statusAlarmThreshold” OID description for Arcturus now includes return values for “Alarm Disabled” and “No Data”. The list of valid return values include 0 - Normal, 1 - Alarm, 2 - Alarm Disabled and 3 - No Data.

For further information or for assistance with this upgrade, please contact Burk technical support at 978-486-3711 or by email at support@burk.com.