

Release Notes

Enterprise Envelope | EE-W20

Software Version: 1.0.0

Purpose and Scope:

This document outlines the major changes performed in this release, bug fixes and compatibility between previous versions of this software. Any significant hardware changes that were made to the product alongside this software version or incompatibilities with previous versions are also covered in this document.

New Features:

- Enhanced system design by consolidating multiple PLCs into a single PLC
- Improved panel design using single panel instead of 2 split panels
- · Improved support for running chillers, pumps and towers of different capacities
- Built-in compatibility for cloud connectivity
- New vector graphics HMI system

Other Changes:

- Some additional free IO points available for use in customized systems
- Improved pump shutdown times by reducing some delays at minimum speed
- Fixed some issues with condenser isolation valves when turning off the controller

Program information:

Program version	1.0.0	
HMI version	1.0.0	
Minimum hardware firmware version	Niagara 4.12	
Upgrade compatibility	1.0.0	
Previous version	N4-IPC9521_20220926 EE-W20 is not compatible at all with previous version	



Connectivity changes:

	Changes from previous	Notes
Modbus RTU	Unchanged	
Modbus TCP	Unchanged	
BACnet MS/TP	Unchanged	
BACnet IP	Unchanged	
Cloud connectivity	New	Connectivity via Ethernet to switch using Modbus TCP.
НМІ	Unchanged	
IO PLC	Modified	Condenser connectivity is daisy-chained to evaporator side and has address 2.

IO changes:

- 1. The following seldom used IO points have been removed from the previous list and have been converted to spare IO points:
 - a. CHWST
 - b. CHWRT
 - c. CWET
 - d. CWLT
 - e. Primary flow
 - f. Chilled water isolation valve commands
 - g. Chilled water isolation valve feedbacks
 - h. Condenser water isolation valve commands
 - i. Condenser water isolation valve feedbacks
 - j. Cooling tower isolation valve commands (1 set)
 - k. Cooling tower isolation valve feedbacks (1 set)
 - I. Bypass valve command
 - m. Bypass valve feedback

Firmware Change Log:

v1:

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