

## Thermostat HMI Change Log

### Document Information

<b>Abstract</b>	Introduce Thermostat HMI change log for the Nuvoton emWin N9H30 microprocessor (MPU).
<b>Apply to</b>	Nuvoton emWin N9H30

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## **1 Introduction**

This document describes Thermostat HMI change history.

## 2 Thermostat HMI Change History

This chapter introduces Thermostat HMI change log in the N9H30 Linux BSP.

### 2.1 Change Log

V2.0	<ul style="list-style-type: none"><li>● Added third-party library libmodbus with Nuvoton RS485 &amp; vendor command modification for PZEM-003 and removed Modbus library.</li><li>● Improved network stability. (WiFi &amp; Ethernet connection flow)</li><li>● Improve string parsing. (use grep, sed, awk &amp; cut)</li><li>● Improve png display stability. (load from RAM)</li></ul>
V1.3	<ul style="list-style-type: none"><li>● Updated psk of default blank \Res\conf\wpa_supplicant.conf to fit for the char &gt;= 8</li></ul>
V1.2	<ul style="list-style-type: none"><li>● Updated Modbus from blocking mode to non-blocking mode. To avoid master block while slave device is disconnected.</li></ul>
V1.1	<ul style="list-style-type: none"><li>● Changed to save weather PNG from SD card to memory, to avoid suddenly power drop and damage storage.</li><li>● Changed to save WiFi config from SD card to memory, to avoid suddenly power drop and damage storage.</li><li>● Improved weather parsing ability, some city's temperature current equals feels.</li></ul>
V1.0	<ul style="list-style-type: none"><li>● Initially created.</li></ul>

**Revision History**

Date	Revision	Description
2020.09.30	2.00	<ol style="list-style-type: none"> <li>Added third-party library libmodbus and removed Modbus library at V1.3.</li> <li>Added PZEM-003 Modbus slave device. (optional)</li> <li>Improved network stability.</li> <li>Improved string parsing.</li> <li>Improved png display stability.</li> </ol>
2020.09.14	1.03	<ol style="list-style-type: none"> <li>Updated \Res\conf\wpa_supplicant.conf</li> </ol>
2020.09.10	1.02	<ol style="list-style-type: none"> <li>Updated Modbus from blocking mode to non-blocking mode.</li> </ol>
2020.09.08.	1.01	<ol style="list-style-type: none"> <li>Changed to save weather PNG from SD card to memory.</li> <li>Changed to save WiFi config from SD card to memory.</li> <li>Improved weather parsing ability.</li> </ol>
2020.09.02	1.00	<ol style="list-style-type: none"> <li>Initially issued.</li> </ol>

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