

# HN6x software release notes

<b>Release 1.3</b>	<b>v1.3</b>	<b>27.6.2025</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>fix timezone handling for lines 2 (DCF out) &amp; 3</li></ul>				
<b>Release 1.2</b>	<b>v1.2</b>	<b>5.6.2025</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>fix stack size</li></ul>				
<b>Release 1.1</b>	<b>v1.1</b>	<b>27.5.2025</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>afnor support</li></ul>				
<b>Release 1.0</b>	<b>v1.0</b>	<b>16.4.2025</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>complete project refactorign - from SC-IDE to Platformio</li><li>alarm history</li><li>GPS module LC76 support</li><li>fix slave line overloading in the case of code line</li><li>second reception quality screen for redundancy mode</li><li>fix some warnings</li></ul>				
<b>Release 0.97</b>	<b>v0.97</b>	<b>17.2.2025</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>fix overload detection for second line</li></ul>				
<b>Release 0.96</b>	<b>v0.96</b>	<b>17.12.2024</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>fix redundant synchronization</li></ul>				
<b>Release 0.95</b>	<b>v0.95</b>	<b>7.6.2024</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>minor refactoring</li><li>fix line overloading state</li></ul>				
<b>Release 0.94</b>	<b>v0.94</b>	<b>4.4.2023</b>	<b>Richard Kubíček</b>	<b>Released</b>
Speedup calibration				
<b>Release 0.93</b>	<b>v0.93</b>	<b>25.2.2023</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>Revert previous calibration speedup</li></ul>				
<b>Release 0.92</b>	<b>v0.92</b>	<b>18.2.2023</b>	<b>Richard Kubíček</b>	<b>Released</b>
Speedup calibration				
<b>Release 0.91</b>	<b>v0.91</b>	<b>18.9.2022</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"><li>increase maximal output current for ACCU output to 400mA</li></ul>				

<b>Release 0.90</b>	<b>v0.90</b>	<b>17.6.2022</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>striking: new striking type - 1/0 - hour mark -&gt; only one hit in whole hour</li> </ul>				
<b>Release 0.89</b>	<b>v0.89</b>	<b>18.11.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>backup storage: do not store line state 'overloaded'</li> </ul>				
<b>Release 0.88</b>	<b>v0.88</b>	<b>4.10.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>striking output blocking</li> </ul>				
<b>Release 0.87</b>	<b>v0.87</b>	<b>11.8.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>fix startup on 24V source - place longer delay on boot</li> </ul>				
<b>Release 0.86</b>	<b>v0.86</b>	<b>26.7.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>some fixes in carillon function</li> </ul>				
<b>Release 0.85</b>	<b>v0.85</b>	<b>5.7.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>update time constans for MSF &amp; WWVB signal</li> </ul>				
<b>Release 0.84</b>	<b>v0.84</b>	<b>10.6.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>add MSF synchronization source support</li> <li>add WWVB synchronization source support</li> <li>add simple protection before some small interference in synchronization signal</li> </ul>				
<b>Release 0.83</b>	<b>v0.83</b>	<b>24.5.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>add MSF synchronization source support</li> </ul>				
<b>Release 0.82</b>	<b>v0.82</b>	<b>2.4.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>fix USB connected state detection</li> </ul>				
<b>Release 0.81</b>	<b>v0.81</b>	<b>24.3.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>fix loading program lines with 59 entry in minutes</li> </ul>				
<b>Release 0.80</b>	<b>v0.80</b>	<b>22.2.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>fix menu navigation</li> </ul>				
<b>Release 0.78</b>	<b>v0.78</b>	<b>17.2.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>fix settings initialization</li> <li>fix DE translations</li> </ul>				
<b>Release 0.77</b>	<b>v0.77</b>	<b>11.2.2021</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>add weekly correction into service menu</li> <li>fix settings initialization</li> </ul>				

<b>Release 0.76</b>	<b>v0.76</b>	<b>26.11.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• add line offset settings to menu</li> <li>• add support of striking on audio output</li> </ul>				
<b>Release 0.75</b>	<b>v0.75</b>	<b>10.11.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• fix MOBATIME CODE telegram generation</li> <li>• add line time offset menu</li> </ul>				
<b>Release 0.74</b>	<b>v0.74</b>	<b>28.10.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• update some germany translations</li> <li>• fix channel program navigation</li> </ul>				
<b>Release 0.73</b>	<b>v0.73</b>	<b>27.10.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• added version HN60m &amp; HN61m</li> </ul>				
<b>Release 0.72</b>	<b>v0.72</b>	<b>18.10.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• extend time between Load channel confirmation and reset of CPU</li> </ul>				
<b>Release 0.71</b>	<b>v0.71</b>	<b>15.10.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• fix channel program sorting</li> </ul>				
<b>Release 0.70</b>	<b>v0.70</b>	<b>15.10.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• change output for 1/1 striking</li> </ul>				
<b>Release 0.69</b>	<b>v0.69</b>	<b>14.10.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• fix service menu navigation</li> <li>• allow to use 1/1 striking</li> </ul>				
<b>Release 0.68a</b>	<b>v0.68a</b>	<b>24.9.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• update some DE translations</li> <li>• repair menu naviagtion</li> </ul>				
<b>Release 0.68</b>	<b>v0.68</b>	<b>10.9.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• move Channel Load menu from service to main menu</li> </ul>				
<b>Release 0.67a</b>	<b>v0.67a</b>	<b>1.9.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<b>Release 0.67</b>	<b>v0.67</b>	<b>18.8.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• some improvements in hardware type detection</li> </ul>				
<b>Release 0.66</b>	<b>v0.66</b>	<b>10.8.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>
<ul style="list-style-type: none"> <li>• new extension assembly variant HN60.A.R2</li> </ul>				
<b>Release 0.65h</b>	<b>v0.65h</b>	<b>30.6.2020</b>	<b>Richard Kubíček</b>	<b>Released</b>

Release 0.65c	v0.65c	30.1.2020	Richard Kubíček	Released
<ul style="list-style-type: none"><li>timebase calibration with linear regression</li><li>tes f f sd fs</li></ul>				
Release 0.65b	v0.65b	27.1.2020	Richard Kubíček	Released
Release 0.65a	v0.65a	27.1.2020	Richard Kubíček	Released
Release 0.65	v0.65	24.1.2020	Richard Kubíček	Released
Release 0.64	v0.64	13.12.2019	Richard Kubíček	Released
<ul style="list-style-type: none"><li>timebase calibration with Elekon algorythm</li></ul>				
Release 0.63	v0.63	28.10.2019	Richard Kubíček	Released
Release 0.62	v0.62	25.10.2019	Richard Kubíček	Released
Release 0.60	v0.60	14.10.2019	Richard Kubíček	Released
Release 0.59	v0.59	7.10.2019	Richard Kubíček	Released