

GAP Coder 2.10-0

9927-1568

Release Notes

Description	Version 2.10-0 is a new release of the Coder replacing 2.09-1.
Enhancements	<ol style="list-style-type: none"> 1. Modified ACT_CTRL Block to gain CPU Horsepower in MicroNet TMR. 2. Added a SCALER block used to scale hardware inputs. 3. Fixed NetSim Issues with TMR control. <ol style="list-style-type: none"> 3.1. ACT_CTRL in TMR 3.2. Support longer lines on two-line display 3.3. IO_FAULT forced outputs 4. Fixed ModBus Rounding Errors. 5. Improved the robustness of the MicroNet TMR platform.
Product Issue Database(PID) Issues Resolved	<p>PID Issue #9931: SOS Compatibility. Problem: A bug was found in the TMR coder where using early versions of SOS (1.x) can cause the control to crash. Servlink function 0x20 "get value Handle" was not handled well when an unknown value was passed in. Solution: Servlink function 0x20 "getvaluehandle()" was set to return "UNSUPPORTED" as the response.</p> <p>PID Issue #8434: LL (Ladder Logic) Outputs in the TMR. Problem: Repeatedly cycling the ladder logic application exposes instances where the LL output of a integer or analog value will be set to zero but the name block output that the LL output is tied too is still frozen at the last value when the app was running. Solution: LL Outputs have been set to zero if LL is stopped.</p> <p>PID Issue #5853: DoModRead Stack OverFlow. Problem: The task domodread() used in ModBus communications was overflowing it's stack, causing a TMR shutdown in one specific application. Solution: domodread's stack size was increased.</p> <p>PID Issue #2393: Incorrect moderror() function call in ModBus. Problem: Sending an incorrect Boolean write value over ModBus causes a bad function call. Solution: Corrected number of parameters to moderror().</p> <p>PID Issue #2345: DataLog Block. Problem: Log_rate input allows negative numbers, this causes the max_sec output to show a negative number. Solution: LOG_RATE was limited to >=1.</p> <p>PID Issue #2267, 2264, 2236: ACT_CTRL Issues. Problem: ACT_CTRL block does not create the correct code when the CTRL_TYPE comes from a name block and is type 1, 4 or 5. Will not code if CH2 is blank. Solution: Modified Code.</p> <p>PID Issue #2225: Rounding Errors in FB_AO. Problem: FB_AO block only works for values 0-32767. Solution: Fixed rounding errors for the full 16 bits(0-65535).</p> <p>PID Issue #2119: ACT_CTRL Application Horsepower Increases. Problem: The ACT_CTRL block was modified in 2.09-0 to fix a TMR Issue. This fix caused a significant increase in the amount of CPU horsepower consumed by the ACT_CTRL block. Solution: The fix was reworked to solve the problem without adding significant</p>

	<p>horsepower increases.</p> <p>PID Issue #2114: ACT_COMBO Reverse Acting. Problem: The ACT_COMBO block did not work for reverse acting. Solution: Modified code.</p> <p>PID Issue #2107: Description. Problem: The problem regards the ACT_CTRL block and the settings of I_RANGE and MA_AT_0 and MA_AT_100 fields on a proportional actuator. If MA_AT_0 or MA_AT_100 are set outside the current range specified by the I_RANGE setting, the channel will output 2 Amps. Solution: Modified code to keep MA inside the I_RANGE.</p> <p>PID Issue #1739: HotKey and Boolean Mutiplexer. Problem: Boolean multiplexer block is not working with Hotkey Solution: Modified Code.</p>
<p>Supported Platforms</p>	<p>The following Hardware Platforms are supported in the 2.10-0 release:</p> <p>MicroNet CPU040 TMR</p> <p>505 Hardware Platform should not be used with the 2.10-0 release. Servlink incompatibility issues have caused problems with the front panel display. If you require version 2.09-505, please contact your local Woodward representative.</p>
<p>Miscellaneous PID Issues Completed</p>	<p>8451, 2904, 2398, 2366, 2331, 2124, 2105, 1755</p>
<p>Customer Action</p>	<p>If you determine that the functional improvements provided in Coder 2.10-0 are critical to your system, you may download the software from the www.woodward.com web site and re-compile your application accordingly. You can also contact Woodward and order Kit# 8928-1088L and get the software plus additional information in the form of a DVD. If more Information is needed, please contact Woodward's Technical Assistant Group at the phone numbers listed below.</p>



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