

IO-Link Device AOI Test Report

Date of Test: 8/29/24

Name of Test Engineer: Anthony Molnar

Product Description of Tested Product: CMTH-M12-IOL6X2-H114

Product Firmware Rev: 1.2.5.0

PLC used to Test Product: SoftLogix

Version of StudioLogix used to Test Product: V23

Name of AOI File Tested: Turck-CMTH-Full-V1.0.L5X

Version of AOI File Tested: 1.0

Test Notes:

Tested with Turck-TBEN-Lx-8IOL-AOI
Rev. V1-3

* Acyclic data stopped updating after
Reset Max / ~~Min~~ Sensor Fault DONE bit doesn't reset
to Retrigger Next Read. Error Count = 3.
* Device Status did not reset to 0 or Wrong or
Missing Device

Test Passed: Yes / (No)

* Zero Temp & Humidity or Device Fault

Test Plan

CMT4 - M12 - IOL6x2 - H1141

- ☒ Drag over IO-Link Device AOI from Catalog to Project
- ☒ Verify AOI Version matches Rev file and Revision Notes from txt file in github.
- ☒ Verify AOI Description matches txt file in github.
- ☒ Create tag instances of AOI
- ☒ Configure port of device
- ☒ Copy Common Data tag
- ☒ Download project to PLC
- ☒ Verify the Wrong or Missing Device is not on
- ☒ Disconnect Device and verify missing device is on
- ☒ Connect incorrect device and verify missing device stays on
- ☒ Reconnect correct device and verify missing devices goes off
- ☒ Add test contact to disable / enable AOI. Verify acyclic data points recover.
- ☒ Verify data points go to zero when Wrong or Missing Device detected - *Device Status*
- ☒ Check Temperature and Humidity values. Compare to webserver.
- ☐ Check Outputs for Temperature and Humidity. Compare to webserver. Cause the outputs to change states.
- ☐ Check Operating Hours, Max Temperature, Max Humidity, Min Temperature, Min Humidity. Compare to webserver.
- ☐ Check Device Status. Force a change by causing humidity to exceed 100% (i.e. breath on sensor to raise humidity). Compare to webserver.
- ☐ Check Reset_Max and Reset_Min by changing value from 0 to 1. AOI will automatically change value back to 0 when operation is complete and Max and Min values should reset.
- ☐ Set Display_DegF to 1 and verify temperature values change from Celsius to Fahrenheit. Reset back to 0 and verify temperature values go back to Celsius.