IP Point HART

Release Notes

A-IP.HART-I

A-IP.HART-O

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Firmware Revision 1.011.004

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 1.011.004 of the IP Point HART In/Out will require the following compatible versions:

Software	Version
Slate	1.067 and later

1.2. NOTES

The following should be noted:

- Firmware upgrades will be done using Aparian's Slate software.
- Aparian flash files have an *.afb* extension.
- Slate can also be used to set the initial network parameters using its DHCP server.
- Should any interruptions cause the module to not complete the firmware upgrade the module will return to Safe Mode. The user can then re-flash the module with the application firmware. See the user manual for more information regarding Safe Mode.

1.3. ADDITIONAL INFORMATION

The following resources contain additional information that can assist the user with the module installation and operation.

Resource	Link
Slate Installation	http://www.aparian.com/software/slate
User Manual, Datasheet Example Code & UDTs	http://www.aparian.com/products/ippointhart
Ethernet wiring standard	www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html

1.4. SUPPORT

Technical support will be provided via the Web (in the form of user manuals, FAQ, datasheets etc.) to assist with installation, operation, and diagnostics.

For additional support the user can use either of the following:

Contact Us web link	www.aparian.com/contact-us
Support email	support@aparian.com

2. IMPROVEMENTS

The following updates are included in this firmware revision.

Revision	Improvement	Description
1.011.004	HART packet capture	Added support for packet capture of HART data.
	HART custom	Added support for HART custom commands.
	HART response	Added configurable HART response timeout.
	HART zero data	Added option to zero HART data when HART communication is lost.
	Bandwidth Share	Added option to allow the module to share the HART communication bandwidth equally across main and multidrop devices.
	Dual Master	Added support for Dual HART master operation.
1.011.003	General	Non-application specific update.
1.011.002	PCCC	Add support for PCCC (AB-ETH) allowing legacy controllers to access the HART device (eg. SLC) - main devices and multidrop devices
	Multidrop	Added multidrop support for Modbus TCP Enhancement to Logix multidrop operation
	FTView	Added support for FTview (without needing a Logix Controller) for main and multidrop HART devices
	Enhancements	Minor enhancements to HART operation
1.010	Channel Indication	Add flags to show which channels have been enabled and which channels have HART enabled.
1.009	Multidrop	Added support for multiple device per single channel
	Burst	Added support for HART Burst mode operation
	Adv Diag	Added SINT array data type
	Max Address	Added support for a maximum node number of 63
	DNP3	Support for Variation 0 was added
1.008	Advanced Diagnostics Data Type	Added reverse option for the Advanced Diagnostics data type.

1.007	Advanced Diagnostics	Add ability to extract specific HART commands and enter them into Logix tags
1.005	ODVA	Updates required for ODVA Conformance
1.004	EDS AOP	Added EDS AOP to firmware

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.011.004	None	-
1.011.002	DNP3 UINT8	Fixed issue where UINT8 group did not allow for signing.
	Logix PRG/FLT mode	Output value kept being overwritten by Logix output assembly when in Program or Fault mode.
	Modbus Mapping	Fixed mapping conversion range.
	HART unit codes	Fixed HART unit codes for DNP3.
1.010	Modbus	Fix exception responses.
	DNP3	Fix DNP3 object issue causing DNP3 Security with aggressive mode not to work correctly.
1.009	Modbus/DNP3	Updated Modbus and DNP3 mapping to have a pad byte to align 16-bit and 32-bit.
	Modbus	Correct error codes are now returned
	Factory Defaults	Factory Default resets now operate correctly
1.008	PV Update Rate	Fixed timeout issue with higher PV update rates
1.007	Ethernet	Fix for certain broadcast Ethernet packets that were being re-broadcasted.
1.006	Up Time / Processor Scan	Incorrect values reporting back Up Time and Processor Scan.
1.004	Input Assembly	Updated input assembly to the correct size

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.011.004	None	-