

# HART 4

## Release Notes

A-HRT-4I

A-HRT-4O

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Firmware Revision 1.010

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# 1. PREFACE

## 1.1. COMPATIBILITY

Firmware revision 1.010 of the HART4 will require the following compatible versions:

Software	Version
Slate	1.035 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	<a href="http://www.aparian.com/software/slate">http://www.aparian.com/software/slate</a>
User Manual, Datasheet Example Code & UDTs	<a href="http://www.aparian.com/products/hart4">http://www.aparian.com/products/hart4</a>
Ethernet wiring standard	<a href="http://www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html">www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html</a>

## 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	<a href="http://www.aparian.com/contact-us">www.aparian.com/contact-us</a>
Support email	<a href="mailto:support@aparian.com">support@aparian.com</a>

## 2. IMPROVEMENTS

The following updates are included in this firmware revision.

Revision	Improvement	Description
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	EtherNet/IP	Update for ODVA conformance
	EtherNet/IP	Block setting of IP address when DHCP DIP switch is still set.
1.007	Advanced Diagnostics Data Type	Added reverse option for the Advanced Diagnostics data type.
1.006	Advanced Diagnostics	Add ability to extract specific HART commands and enter them into Logix tags
1.004	ODVA	Updates required for ODVA Conformance

## 3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
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
1.007	PV Update Rate	Fixed timeout issue with higher PV update rates
1.006	Ethernet	Fix for certain broadcast Ethernet packets that were being re-broadcasted.

1.005	Up Time / Processor Scan	Incorrect values reporting back Up Time and Processor Scan.
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## 4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.010	None	-