

Where Automation Connects.



PLX51-HART-4I

4 Channel HART Input Module
Gateway

January 9, 2023

Your Feedback Please

We always want you to feel that you made the right decision to use our products. If you have suggestions, comments, compliments or complaints about our products, documentation, or support, please write or call us.

ProSoft Technology, Inc.
+1 (661) 716-5100
+1 (661) 716-5101 (Fax)
www.prosoft-technology.com
support@prosoft-technology.com

PLX51-HART-4I Release Notes
For Public Use.

January 9, 2023

ProSoft Technology®, is a registered copyright of ProSoft Technology, Inc. All other brand or product names are or may be trademarks of, and are used to identify products and services of, their respective owners.

Content Disclaimer

This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither ProSoft Technology nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein. Information in this document including illustrations, specifications and dimensions may contain technical inaccuracies or typographical errors. ProSoft Technology makes no warranty or representation as to its accuracy and assumes no liability for and reserves the right to correct such inaccuracies or errors at any time without notice. If you have any suggestions for improvements or amendments or have found errors in this publication, please notify us.

No part of this document may be reproduced in any form or by any means, electronic or mechanical, including photocopying, without express written permission of ProSoft Technology. All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components. When devices are used for applications with technical safety requirements, the relevant instructions must be followed. Failure to use ProSoft Technology software or approved software with our hardware products may result in injury, harm, or improper operating results. Failure to observe this information can result in injury or equipment damage.

© 2023 ProSoft Technology. All Rights Reserved.

Contents

Your Feedback Please	2
Content Disclaimer	2
1 Start Here	4
1.1 About the PLX51-HART-4I	4
1.2 Release Enhancements	5
2 Support, Service & Warranty	7
2.1 Contacting Technical Support	7
2.2 Warranty Information	7

1 Start Here

This document highlights the new features, fixes, enhancements and known issues for the PLX51-HART-4I gateway.

1.1 About the PLX51-HART-4I

Model	Standards
PLX51-HART-4I	UL/cUL; Class1Div2

The PLX51-HART-4I allows users to easily connect their existing HART-compatible field devices to EtherNet/IP™, Modbus® TCP/IP, and DNP3 Ethernet networks. The module can be used to connect HART Input devices such as process instruments into an Ethernet network.

The PLX51-HART-4I supports up to 4 channels of HART communication, as well as Analog 4-20 mA signals for real-time process variables to/from the HART-compatible device.

1.2 Release Enhancements

Release Version	Release Date	Description
1.003.017	9-Jan-2023	<ul style="list-style-type: none"> Minimum firmware required to run on hardware with the "HB" designation in the F/W REV product label.
1.003.015	25-Feb-2022	<ul style="list-style-type: none"> Added support to disable HART communications from the operation interface (EtherNet/IP, Modbus TCP/IP, or PCCC). Added additional CIP attributes to allow SLC/MicroLogix to read all 4 process variables of main and multidrop devices in one read. <p>The following features require PLX50 Configuration Utility version 1.027 or later:</p> <ul style="list-style-type: none"> Added functionality to send custom HART commands using either EtherNet/IP or Modbus TCP/IP. Added support for HART packet capture. Added option to zero-out data when HART device is lost. Added configurable HART response timeout. Added option to equally share bandwidth between multidrop and main device. Added Dual Master functionality.
1.003.010	8-Jan-2020	<ul style="list-style-type: none"> Updated Modbus Input Registers to fix Device Status mapping. Added CIP stats for Multidrop tag read/write when in EtherNet/IP mode.
1.003.009	20-Feb-2020	<ul style="list-style-type: none"> Fixed anomaly with DNP3 UINT8. Added support for rapid fire Modbus TCP/IP. Added support for multiple Modbus requests in a single TCP packet. Fixed Device Info range for DNP3 UINT8. Fixed Zero process variable that does not exist in CMD3 response for multi-drop devices.
1.003.006	6-Nov-2019	<ul style="list-style-type: none"> Fixed DNP3 signed integer mapping. Added support for PCCC (AB-ETH) allowing legacy controllers to access the HART device (eg. SLC) - main devices and multidrop devices. Added multidrop support for Modbus TCP/IP. Added automated multidrop support for Logix - (option of new UDT structure or ProSoft legacy MVI56 UDT). Added support for FTview (without needing a Logix Controller) for main and multidrop HART devices. Added DIP 3 Config Download block. Added DIP 4 fixed IP address 192.168.1.100.

		<ul style="list-style-type: none"> • Fixed issue where scaled value keeps getting updated from output assembly when program mode and set to force to value on output. • Fixed Modbus mapping conversion range check to always use INT sizes. • Updates to Write Register locations for output devices. • Updates to Holding Register locations for HART statistics. • Fixed HART unit codes for DNP3 in uint8_t. • When updating DNP3 update key - clear keys to force reissue of session keys. • Zero process variable that does not exist in CMD 3 response. • HART Fault bit in the device status will now only be used for the primary device while each multi-drop still uses its' poll status to indicate a device fault.
1.003	31-Oct-2018	Initial Release

2 Support, Service & Warranty

2.1 Contacting Technical Support

ProSoft Technology, Inc. is committed to providing the most efficient and effective support possible. Before calling, please gather the following information to assist in expediting this process:

- 1 Product Version Number
- 2 System architecture
- 3 Network details

If the issue is hardware related, we will also need information regarding:

- 1 Module configuration and associated ladder files, if any
- 2 Module operation and any unusual behavior
- 3 Configuration/Debug status information
- 4 LED patterns
- 5 Details about the interfaced serial, Ethernet or Fieldbus devices

Note: For technical support calls within the United States, ProSoft Technology's 24/7 after-hours phone support is available for urgent plant-down issues.

North America (Corporate Location) Phone: +1.661.716.5100 info@prosoft-technology.com Languages spoken: English, Spanish REGIONAL TECH SUPPORT support@prosoft-technology.com	Europe / Middle East / Africa Regional Office Phone: +33.(0)5.34.36.87.20 france@prosoft-technology.com Languages spoken: French, English REGIONAL TECH SUPPORT support.emea@prosoft-technology.com
Latin America Regional Office Phone: +52.222.264.1814 latinam@prosoft-technology.com Languages spoken: Spanish, English REGIONAL TECH SUPPORT support.la@prosoft-technology.com	Asia Pacific Regional Office Phone: +60.3.2247.1898 asiapc@prosoft-technology.com Languages spoken: Bahasa, Chinese, English, Japanese, Korean REGIONAL TECH SUPPORT support.ap@prosoft-technology.com

For additional ProSoft Technology contacts in your area, please visit:
www.prosoft-technology.com/About-Us/Contact-Us.

2.2 Warranty Information

For complete details regarding ProSoft Technology's TERMS & CONDITIONS OF SALE, WARRANTY, SUPPORT, SERVICE AND RETURN MATERIAL AUTHORIZATION INSTRUCTIONS, please see the documents at: www.prosoft-technology.com/legal