

ASi-INspektor[®] Starterkit

User Manual



Diagnostic and service tools for AS-Interface

Content

Quickstartinstructions.....	1
Content.....	2
1 Introduction.....	3
1.1 Generally.....	3
3 Connect to the network.....	4
3.1 INspector® connect to ASi.....	4
3.2 Connect Switch and Webinterfacemodule.....	4
4 ASi-INspector® evaluate.....	6
4.1 Acess to Webinterface.....	6
4.2 Error-free network map.....	9
4.3 Faulty network map.....	9
4.4 Reset the ASi-INspector®.....	10

1 Introduction

1.1 Generally

The ASi-INspector[®] is a passive data logger which continuously the traffic on the ASi-networks analyzed for disorders and events.



Based on the historical protocol analysis the ASi-INspector[®] is able to detect and store statistically

- faulty telegrams,
- telegram repetitions,
- equipment failure,
- device error (diagnoses).

Via a web interface generated by PureBox, the ASi-INspector[®] can be read without problems by the internet browser and document the errors.

3 Connect to the network

3.1 INspector[®] connect to ASi

The ASi-starter-kit will be delivered pre-wired. It consists of the ASi-INspector[®], the Webinterfacemodule (PureBox), a 3-port switch and a power supply. The ASi-INspector[®] must be connected with an ASMi (measuring point) or a terminal (is shown on the schematic drawing in 3.2) and have to be supplied over extension lead onto the ASi. The brown wire is ASi⁺ and ASi⁻ the blue.

A separate 24-volt port is optional, since the power supply is taken over by the ASi-network. However the switch and the PureBox, must be powered by 24 volts.

3.2 Connect Switch and Webinterfacemodule

The 3-port switch is the connection between the user, the ASi-INspector[®] and the PureBox. The ASi-INspector[®] is connected to a standard Ethernet cable to its RJ45 plug.

On another port, the line from Webinterfacemodule on coming "Network" output is to connect.

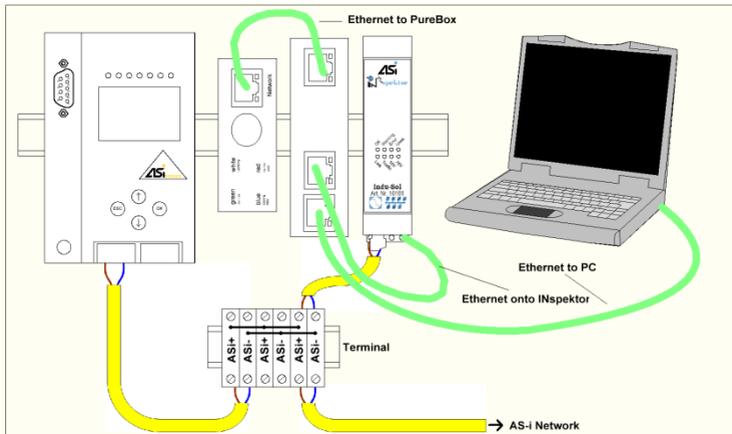
The description of the LEDs and their warning signs are described at the front blade of the module.

- Green: on = ok
- Blue: data exchange
- White: updating
- Red: Error or missing link

3 Connect to the network

The last free port allows users to access a computer or programmer. Either it is introduced via an Ethernet cable in a monitoring network or to connect the programmer directly to the switch for a fast readout of diagnoses.

The illustration presents a proposal for wiring.

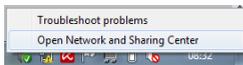


4 ASi-Inspector® evaluate

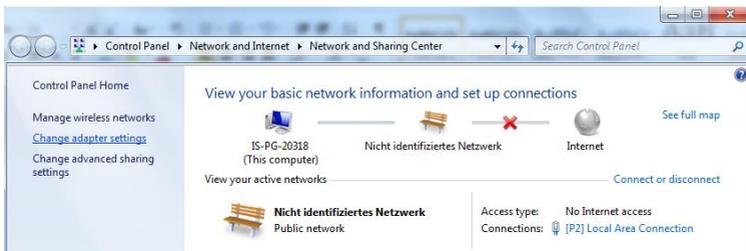
4.1 Access to Webinterface

In order to tap the collected data of the INspector®, should be ensured that the laptop is in the same IP range as INspector® (standardized 192.168.212.212) and PureBox (standardized 192.168.212.100).

The necessary conversions, to take on the web interface, are to be made in the network settings.

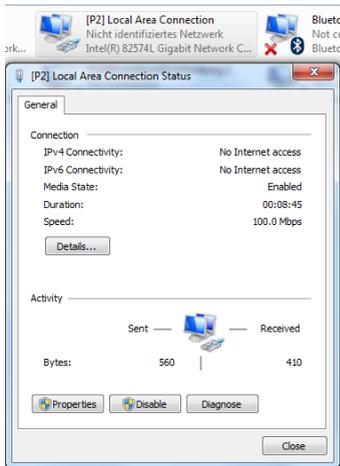


With a right-mouse-button-click on the Network-icon, go to „Open Network and Sharing Center“.

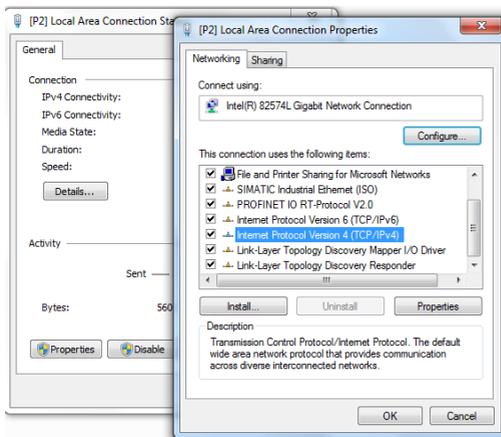


Click on „Change adapter settings“ to open „Network Connections“.

4 ASI-INspector® evaluate

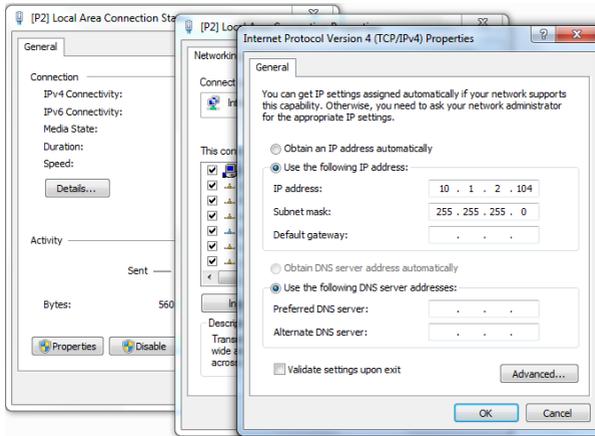


Click twice on the connected adapter to open “Local Area Connection Status”.



Go to “Properties” and switch to “Internet Protocol Version 4 (TCP/IPv4)”.

4 ASi-Inspector® evaluate



Change from „Obtain an IP address automatically “ to “use the following IP address”. Now enter an IP address in the area of your ASi-Inspector® (use in default, for example 192.168.212.105).

Open Internet browser and navigate to the IP address of the web interface.

Here, the IP address of the web interface **192.168.212.100** is entered in the address column of the browser.



4 ASI-INspector® evaluate

4.2 Error-free network map

The Web Interface pictured shows the optimal state. No error messages or slave failures.

The screenshot shows the 'Network Overview' page for 'Teststand Technik'. The current state is 'OK'. The interface includes a sidebar with navigation options like 'Device Diagnosis', 'Lost Nodes', and 'Error Telegrams Salves'. The main area displays a table of network statistics and a grid of node statuses. All nodes (A0-A3, B0-B3) are shown in green, indicating they are active and in an 'OK' state. A legend at the bottom right identifies the colors: Inactive (grey), OK (green), Event / Diagnosis (yellow), Error / Failure (red), and Active, not production (blue).

4.3 Faulty network map

An error event is immediately diagnosed and visualized by the network survey.

This screenshot shows the same 'Network Overview' page, but with an error event. The 'Current State' is now 'Failure'. The 'Event / Diagnosis' column in the statistics table shows '0 / 1'. In the node status grid, nodes A0, A1, A2, and B0 are highlighted in red, indicating a failure. A red circle highlights the 'Failure' button in the top right corner, and another red circle highlights the red nodes in the grid. The legend at the bottom right shows that red represents 'Error / Failure'.

4 ASi-Inspector® evaluate

In order to get a more detailed insight into the disturbance flow are opened by selecting the “alerts” button, the Event list.



Name of the Network: Testwand Technik

Event list

Date / Time	Node Address	Event	Threshold
16.09.2014 11:20:00	Device 6	Lost Nodes	1
16.09.2014 11:20:00	Device 7	Lost Nodes	1

Buttons: Overview, Clear events

Navigation Menu: Network Overview, Event list, Thresholds Settings, Settings, ASi-Devices, Log, Contact, GPL Information

The Event list is by the chronological arrangement an accurate statement which participant has been in disorder. In the "Event" column is the respective diagnosis of the participant to read.

4.4 Reset the ASi-Inspector®

After correcting the error, it is recommendable to reset the Inspector®. Resetting allows a new measurement without influences of the preceding error.

The reset is performed by selecting the button 'clear Data' and reset the alarms. Therefore the event list must be opened and it is to press the responsible button.

After the next update cycle, the diagnoses are deleted and it appears the view of the now error-free-view without system alerts and records.

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