

## Prediktor Historian Communication Driver

This document has the specific information related to this driver configuration. For a generic explanation on Device Module, Channels, Nodes and Points configuration, please refer to reference guide.

### Contents

<b>1</b>	<b>Summary Information</b>	<b>2</b>
<b>2</b>	<b>Protocol Requirements</b>	<b>2</b>
<b>3</b>	<b>Channel Configuration</b>	<b>2</b>
3.1	Protocol Options .....	2
<b>4</b>	<b>Node Configuration</b>	<b>3</b>
4.1	Station Configuration.....	3
4.2	Example Nodes Configuration .....	3
<b>5</b>	<b>Point Configuration</b>	<b>3</b>
5.1	Address.....	3
5.2	Example Points Configuration.....	3
<b>6</b>	<b>Troubleshoot</b>	<b>4</b>
6.1	Error Codes .....	4
<b>7</b>	<b>Revision History</b>	<b>5</b>

## 1 Summary Information

**Communication Driver Name:** Prediktor Historian

**Current Version:** 1.0.0.4

**Implementation DLL:** T.ProtocolDriver.Prediktor.dll

**Manufacturer:** Prediktor

## 2 Protocol Requirements

Before setting up a communication with Prediktor driver, the APIS SDK must be installed on the local computer.

Once the APIS is installed, you must copy some dll files to your products installation folder. The files are located in APIS installation folder, usually

C:\ProgramFiles(x86)\APIS\NET\_API\Bin

From this folder, copy the following files:

- SentinelRMSCore.dll
- Prediktor.Log.dll
- OpcNetApi.Prediktor.DLL
- OpcNetApi.Com.Prediktor.DLL
- HoneystoreNetApi.DLL
- HiveNetApi.DLL
- ApisNetUtilities.DLL

The files will be pasted inside your products installation directory folder, usually at:

C:\ProgramFiles(x86)\<CompanyName>\<ProductName>\<ProductVersion>

## 3 Channel Configuration

### 3.1 Protocol Options

Not used in this driver. The remaining channel configurations are standard according the description on the reference guide.

## 4 Node Configuration

### 4.1 Station Configuration

- Hive

**Server Name:** Database server name.

**Instance:** Server and Hub configured.

- Honeystore

**Server Name:** Database server name.

**Database Name:** Model database name

### 4.2 Example Nodes Configuration

Name	Node	PrimaryStation	SecondaryStation	Description
Prediktor1	Prediktor	Hive;localhost;Prediktor.ApisLoader.1; ;		

**Note 1:** Use the Test Connection button to check the connection with the Server and Database.

## 5 Point Configuration

### 5.1 Address

You can use the either Browse button to see all data available in the Prediktor database or write the Tag address directly into the field.

Use the Verify button to check if it is a valid name and get the current value and quality.

### 5.2 Example Points Configuration

TagName	Address	Data Type	AccessType	Description
Line001 Temperature	Line[1].Furnace Temperature	Integer	ReadWrite	

## 6 Troubleshoot

The status of the driver execution can be observed through the diagnostic tools, which are:

- Trace window
- Property Watch
- Module Information

Status value of 0 (zero) means communication success. Negative values indicate internal driver error and positive values means protocol errors code.

### 6.1 Error Codes

Error Code	Description	Possible Solution
0	Success	•None
-100	Error Sending Message	<ul style="list-style-type: none"> <li>•Turn PLC on</li> <li>•Plug the PLC Ethernet cable</li> <li>•Check configured IP Address field in Device &gt;Node</li> <li>•Ping PLC using prompt command</li> </ul>
-101	Error Sending and Waiting Message	
-102 . . . -105	Error creating TCP/IP connection	
-106	Error Receiving Message	
-112	Timeout Start Message	<ul style="list-style-type: none"> <li>•Turn PLC on</li> <li>•Plug the PLC Ethernet cable</li> <li>•Ping PLC using prompt command</li> <li>•Check configured IP Address field in Device &gt;Node</li> <li>•Increase the driver timeout field in Device &gt;Channel</li> </ul>
-113	Timeout between Treated Chars	
-114	Timeout End Message	
-115	Timeout Connect	
-200	Protocol Error	<ul style="list-style-type: none"> <li>•Check if the PLC model is compatible with driver documentation</li> <li>•Check the configured Address field in Device &gt;Points</li> </ul>
-201	Invalid Protocol	<ul style="list-style-type: none"> <li>•Check if the PLC model is compatible with driver documentation</li> <li>•Contact technical support</li> </ul>
-202	Invalid Station	<ul style="list-style-type: none"> <li>•Check configured IP Address field in Device &gt;Node</li> <li>•Restart the driver</li> </ul>
-204	Invalid Message Sequence	<ul style="list-style-type: none"> <li>•Check if the PLC model is compatible with driver documentation</li> <li>•Check the configured Address field in Device &gt;Points</li> </ul>

## 7 Revision History

Revision	Version	Description	Date
A	1.0.0.0	Initial Revision	October 2019
B	1.0.0.1	Revision Update	April 2020