FlowTimebaseDB Database Connector

FlowTimebaseDB databases

- Name: **FlowTimebaseDB**
- Version: 1.0.0.1
- Protocol: Proprietary
- Interface: TCP/IP
- Runtime: .NET 8.0 (Multiplatform)
- Configuration:
    - Devices / Protocols

Channel Configuration
Node Configuration
Points Configuration
Troubleshoot
Driver Revision History

Overview

Communication Driver Information	
Driver name	FlowTimebaseDB
Assembly Name	T.ProtocolDriver.FlowTimebaseDB
Assembly Version	1.0.0.1
Multiplatform	True
Manufacturer	Flow Software
Supported protocols	REST API for HTTP-based standardized interaction

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Channel Configuration

There is no configuration settings necessary for this interface.

Node Configuration

PrimaryStation or SecondaryStation

The station parameters are:

- **URL**: Specifies the URL with port of the FlowTimebaseDB server.
- **Dataset**: Defines the Dataset within FlowTimebaseDB to retrieve or store data.
- **Token**: Specifies the token for authentication with the FlowTimebaseDB server.
- **Collector**: Specifies the type of Collector to be used. Each one have a specific behavior in Runtime.

> ⚠ Always use the **Test** button to verify the connection status.

Points Configuration

The address parameters are:

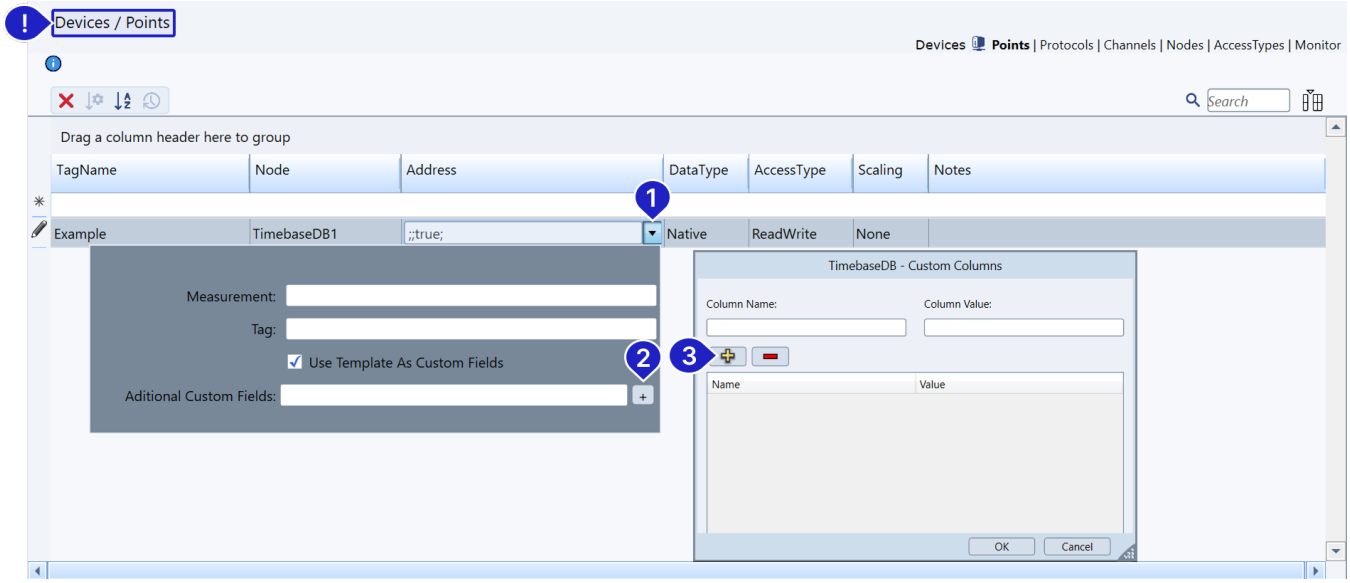
- **Measurement**: Measurement in which Tag will be assigned in FlowTimebaseDB Table.
    - If Point is a **Project Tag** and measurement field is blank, Main TagName (Name defined in **Unified Namespace Tags**) will be used.
    - If Point is from **TagProvider** and measurement field is blank, ProviderName will be used.
- **Tag**: Field in which Tag will be assigned in FlowTimebaseDB Table. If blank, Tag Attibute will be used (element of default types, like Integer, Decimal, etc).
- **Use Template As Custom Fields**: Flag indicating if Templates which Tag belongs to will be used as Custom Fields in FlowTimebaseDB Table. Default value is **true**.

  If Point is from **TagProvider** and CheckBox is **true**, a Field called **TagProviderPath** will be created with the path leading to the TagProvider asset.

- **Additional Custom Fields**: List of User-Defined Custom Fields, separated by comma, to map a variable in the Database.

  Syntax: <FieldName> = <FieldValue>

  You can add, remove or edit custom fields in the dialog window at '+' button.



Example

To illustrate the result of a sucessfull configuration we will make the following assumptions.

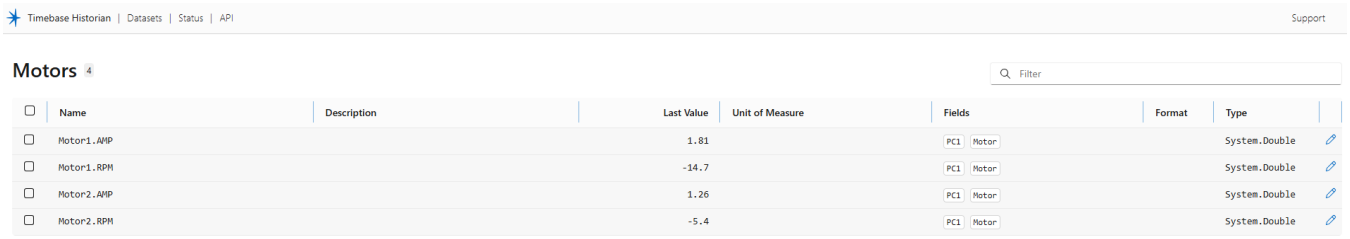
- The Tags are structured as:

```
Motor1 [Tag of Template 'Motor']
       AMP [Final Attribute of 'Double' Type]
       RPM [Final Attribute of 'Double' Type]
Motor2 [Tag of Template 'Motor']
       AMP [Final Attribute of 'Double' Type]
       RPM [Final Attribute of 'Double' Type]
```

The Address is configured as for each motor:

1. **Measurement**: " ". [Leave it blank so our Tag name is used].
2. **Tag**: " ". [Leave it blank so our attributes are used].
3. **Use Template As Custom Fields**: true.
4. **Additional Custom Fields**: Owner = PC1.

This configuration will result in the following Table inside FlowTimebaseDB:



Troubleshoot

The status of the driver execution can be observed through the platform built-in diagnostic tools. Refer to Devices - Using Diagnostic Tools.

Driver Revision History

FlowTimebaseDB Revision History	
Version	**Notes**
1.0.0.1	DateTime and TimeSpan tag values are now stored and read back correctly; tags without a measurement are stored under a default 'Tag' measurement; history queries now return the samples of the requested tag with local timestamps.

In this section...