DataLogger for KEPServerEX® V6
Easy Guide

An introductory guide to configure DataLogger for data collection and analysis.
Introduction

DataLogger for KEPServerEX® can pull data gathered by KEPServerEX and log it to an ODBC-compliant database; including MSSQL, MySQL, PostGRE, Oracle, and Microsoft® Access.

Applications for DataLogger may include logging a small set of data to a single table or high volumes of data logging to multiple databases. Log data at a range of speeds, from milliseconds to minutes to hours.

DataLogger is useful for a variety of scenarios, including:

- Overall Equipment Effectiveness (OEE) calculations that use aggregated data from availability, performance, and quality information
- Batch process data that can be mapped into a table and queried based on batch attributes

Follow these steps to configure DataLogger for your logging and analysis needs.
Configuring DataLogger

1. Set up a database connection.
   - In KEPServerEX, select **DataLogger** and add a new log group.
   - In the General property group, click **Browse (…)** in the DSN field, then select **Configure DSN…** to launch the Data Source Administrator.

   ![Property Editor - Data Logger.LogGroup1]

   ![Data Source Selection]

- **Note**: Creating a System DSN connection yields the best logging results and works with the KEPServerEX default settings.
• Access the **System DSN** tab and click **Add**.

• Select the type of driver to connect to the database. For testing purposes, try logging data using the Microsoft Access Driver (with extension *.mdb).

• Click **Finish** to configure the database connection.

• In **ODBC Microsoft Access Setup**, enter a name in Data Source Name and click **Create** to specify the location for the database files.

• Browse for a directory in which to save the database. Once finished, click **OK**.

• Select the new database from the DSN drop-down menu under Data Source Selection and click **OK**.
2. Select the data logging table and table format.

The Table property group is found under **Log Group | General**.

- For Table Selection, select *Create a new table once and always append to this table*.
- Enter a name for the table in the Table Name field. This example uses “Table1”.
- For Table Format, select *Narrow – Each item shares a column mapping*. 
3 Select data to log from the server.

- Right-click **Log Items** and select **New Log Item** or select **Add LogItem...**.
- Click **Browse (...)** from the **Item ID** field, and select data to log. For testing purposes, choose a System Tag like “Time_Second.”

*For more information on the Table Selection and Table Format choices, see the DataLogger product manual.*
4 Return to the KEPServerEX configuration window.
   - To start logging, click the icon located in the KEPServerEX toolbar.
   - To stop logging, click the toolbar icon.
   You can also configure multiple log groups to log data at different rates or to different databases.

5 Trigger the data to log.
   DataLogger's default settings for new log groups include a preconfigured 500-millisecond trigger.
   - Open the new database file (saved to the location specified in Step 1) in MS Access to verify that the data was recorded.
   - If the data is in the table, congratulations! You have successfully logged time-series data from KEPServerEX to a database!