

Starter Kit - Process Data Acquisition (64 tag)

Consists of:

Online data Acquisition Software

- ibaPDA-PLC-Xplorer

Offline Analyze and reporting Software

- ibaAnalyzer



ibaPDA-PLC-Xplorer Software:

Functionally complete ibaPDA measuring data acquisition system with restricted interface selection and limited signal volume, it is developed for mobile and stationary use. The full ibaPDA software is installed and the features for this basic package license *2 with 1 server and 2 clients for gathering 64 signals (analog and/or digital and/or text channels from PLCs by Xplorer*1 connections) with parallel file recording capability for two dat-files, is released by the means of the hardware license dongle.

Includes interfaces for:

SIMATIC systems (S7-Xplorer)

- Data access via TCP/IP
- Data access via MPI/Profibus(for e.g. with CP5512,CP5612)

Codesys based systems (Codesys-Xplorer)

- Data access via TCP/IP

Allen Bradley systems PLC5 / SLC-500 (AB- Xplorer)

- Data access via TCP/IP

Sigmatek systems (Sigmatek-Xplorer)

- Data access via TCP/IP

Beckhoff systems (TwinCat-Xplorer)

- Data access via TCP/IP - Supports TwinCAT-Version 2 and 3

B&R systems (B&R-Xplorer)

- Data access via TCP/IP - In addition a B&R PVI-Manager license is required for the data acquisition. This license must be ordered from B&R directly on extra costs!

Allen Bradley systems Control-/Compact-/MicroLogix (Logix-Xplorer)

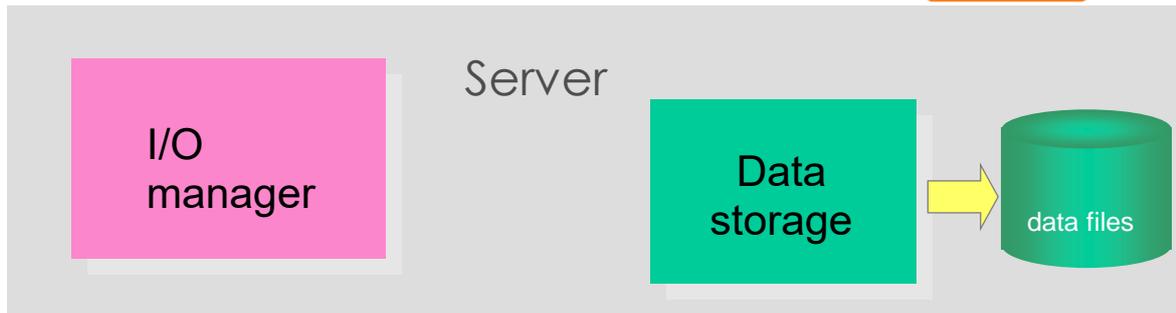
- Data access via TCP/IP

OPC DA (Server and Client)

*1 Xplorer interfaces, no changes in PLC necessary, typical update time > 10ms

*2 Can be upgraded by to full ibaPDA with the upgrade product, Upgrade-PLC-Xplorer to PDA-V6-64 and after that all other features are released.

The ibaPDA (PLC-Xplorer) Server is the runtime software for the data acquisition. It runs on a windows-based OS. It can be set to start up with the windows start. The server runs the current project that includes the configuration for the IO (interfaces) and the DATA STORAGE (dat files). The setup is made with the ibaPDA Client software.



All basic licenses give the opportunity to use 2 clients simultaneously, that can be used on same or different computer as the Server.

In the client the **IO-manager** is used to setup signals and interfaces.

The interfaces are divided into modules and are given a number that will follow the signal. In the module the signals will be listed and the place in the list will also correspond to a number. Signals can be given a name and some interfaces also supports address books from the PLCs. Module numbers and module names can be changed by the user. In addition to the Xplorer interfaces there is the possibility to replay an already recorded dat file with the Playback module and there is also the possibility to add different virtual modules and in those with the the formula editor created a lot of advanced functions. There is unlimited modules for grouping signals according to the user preferences and the group relations will be stored with the signals in the data file (dat-file).



- Hardware configuration, signal definition (name, scale, unit) and diagnostics
- Definition of local signal groups
- Definition of techno-strings

In the client the **Data storage** is used to setup the storage of signals. Signals can be stored with different updates times than the modules in the IO-manager by defining different profiles. In the profiles the user can also set the data to be compressed to reduce the data file size. Signals in virtual modules can be stored to , and different signals can be stored with different profiles in same dat-file. The independent dat-files has their own storage folder and a second storage place. The storage place can be set to automatically divide into subfolders (ex. day based) with a maximum number of . The different dat-files can have individual maximum file times as well as trigger modes. Trigger can be from signal, automatic or manual from client. In the trigger mode configuration there is also settings for the overlapping file recording capability.

The naming of dat-files can be set to use data from signals (technostrings). Settings for automatic cleanup of files and storages can be made.



- Definition of profiles for archiving
- Definition of data stores:
 - definition of signals and triggers
 - definition of file storage
 - definition of “clean-up” strategies

In the client the **Layout manager** is used to setup the online views. Specific layouts can be made for each client. Trend graphs, displays for viewing. Pause and zoom with markers. Look and feel like ibaAnalyzer.



- Definition of signal monitors for online monitoring of signals
- Selection of signals
- Change of scroll direction
- Change of axis, setup (ibaAnalyzer style ..)

- Runs under:
Windows XP Professional (until 6.35.x only), Windows 2003 Server (32Bit; until 6.35.x only), Windows 2000 (until 6.24.0 only), Windows Vista (32Bit; released with V6.21.0), Windows 2008 Server (32Bit; released with V6.21.0), Windows 7 (32Bit; released with V6.24.0), Windows 7 (64Bit; released with V6.30.0), Windows 8 / 8.1 (64Bit; released with V6.33.0), Windows 2012 Server(64Bit; released with V6.33.0), Windows 10 (released with 6.35.0)
- Protected by dongle

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ibaAnalyzer Software:

IbaAnalyzer is the powerful offline software tool for analyzing complex data recorded with ibaPDA eg files in the format .dat.

Drag and drop signal into 2d, 3d graphs, zoom in and out. Use the navigator to move your zoomed in area. Add own virtual signals with the advanced functions in expression builder. Add own macros.

Design filters. Design report layouts.

Create Templates for your analyze .pdo files for your setup and process several .dat files quickly.

Create shortcuts to analyzes, functions and signals.

- Runs under Windows XP, Windows 2003 Server (32 Bit), Windows Vista (32 Bit), Windows 2008 Server (32 Bit), Windows 7, Windows 2012 Server, Windows 8, Windows 10, Windows 2016 Server

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