OpenTrend™ is a high performance trending application that supports real-time trending, historical trending and archival playback. The OpenTrend system has the ability to trend any real-time, calculated or application generated data value from the system database.

Located on a central server, the OpenTrend Archiver function manages the collection and sampling of data. The historical trending supports the storage of trend data for an unlimited period of time. Archived data can also be exported as CSV formatted files for supplementary analysis or for importing data into reports.

The Trend Archiver has the ability to sample and periodically archive data as fast as every two seconds. Efficient compression techniques are used to save data to disk—and data is organized into monthly files which can be permanently archived onto external media for regulatory purposes. The OpenTrend Viewer allows any users on Windows-based client machines to view real-time and historical trends. In addition to viewing Trend Archive data, the OpenTrend Viewer can also be used to view data from other OSI historical data sources and even third-party sources such as OSIsoft PI or eDNA historians.

OpenTrend Viewer features include:

- Ability to chart up to eight trends in one window
- Support for horizontal or vertical trending
- Ability to have an unlimited number of windows on a monitor (limited only by performance)
- Support for auto-scaling or use of a fixed scale
- Ability to zoom in on one area of a trend
- Ability to scroll forward or back in time
- Support for moveable crosshair for reading data values on a graph
- Customizable pen colors and backgrounds (paper, textures, etc.)
- Shading of graph area under the curve
- Ability to superimpose two different time frames in a single window for comparison

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The OpenTrend Archiver can be easily configured on a client machine through a “Trend Control” display; whereby the user can add points to be archived and sampled for trending with a simple point and click interface. Archiving of data is independent from viewing and points can be sampled and archived for later display.

The OpenTrend Viewer allows for various views of the trend data to be pre-built and saved as “View Documents” which can be recalled and activated at a later date.

All look and feel options and user preferences of the Trend Viewer can be configured and saved for future use. Because Views are independent of the collected and sampled variables, an unlimited amount of Trend Views can be built with various characteristics to show combinations of assorted trend variables.

The OpenTrend function is a native Microsoft Windows application and can be set-up independently of the system User Interface. It can also be used in the corporate environment to give access to executive management, system planners or other engineering departments to view and analyze archived real-time data.

OpenTrend is an ideal replacement for maintenance intensive and obsolete strip chart recorders in a control room environment.