

PROTOS 2.0

ALARM- / MESSAGE MANAGEMENT

Analysis – system-independent – web-based

PROTOS 2.0 enables alarms and messages from control systems and automation devices to be recorded, archived and analysed irrespective of the manufacturer.

The system is operated via the web-based Front-End, which features innovative functions for the analysis and displaying of alarms and messages. Overall, attention was particularly paid to the simple and intuitive user interface.

Whether KPI's for the management or for OEE systems or detailed information for operators and maintenance, PROTOS 2.0 offers the right information for every user.

PROTOS 2.0 offers the following features:

„OnlineView“: The alarms and messages are displayed in their original reporting order. Individual settings allow the visualisation of the information to be adapted.

„Historical View“: Display of the alarms and messages within a selected time span. Via the filter and search options, any desired search requests can be generated. The search results can be exported.

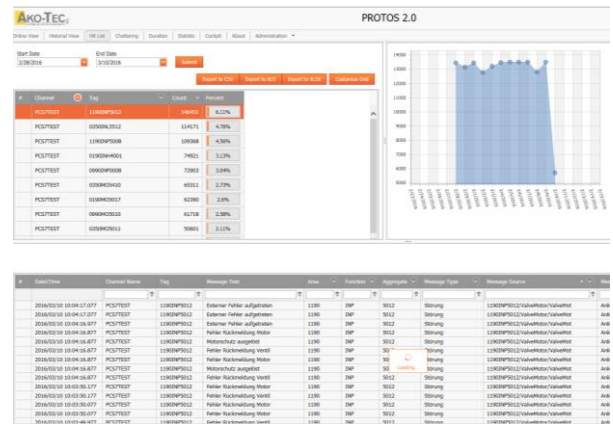
„Hit lists“: The creation of automatic, tag-based hit lists.

„Chattering (flicker) alarms“: The detection of so-called chattering (flicker) alarms. The definition of a chattering (flicker) alarm can be parameterised.

„Alarm/report duration“: Analysis of the duration of the report.

„Alarm/report statistics“: Automatic summation of alarms and/or messages within defined time spans.

„Trends“: Measurement point-related analysis of the frequency of the alarms/messages based on two time periods.



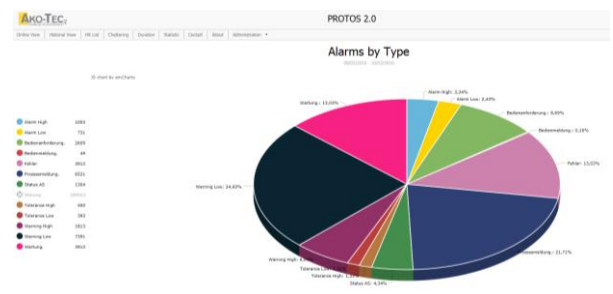
picture 1: PROTOS 2.0 – FrontEnd

„Export“: Export of the analyses into different Excel formats.

„Reports“: Generation of customer-specific reports via “SQL Server Reporting Services”.

„Alarm-Cockpit“: The alarm cockpit view enables a fully graphical analyse of alarms and events with a dynamic linking based of following available criterias:

- Alarms by Channel/Area/Function
- Alarms by Message type or Message priority
- Duration Timeline to display the sequential view of selected Tags in a dynamic GANT-Diagramm
- Evaluation of the system performance level for each channel



PROTOS 2.0 analyses areas and businesses irrespective of the systems used.

The Alarm monitoring is based on ISA18.2 and EEMUA 191 norms.

Function expansions can be carried out fast without them having to be installed on each client computer.

All analyses and evaluations are possible for part systems and/or the entire system.

The user access to the database occurs using a modern user administration system.

The FrontEnd is suitable for use on mobile end terminals such as tablets or smartphones and is optimised for MS-IE V9.x or upwards.

The generation of the alarms and reports is possible via different interfaces, such as native connections (PCS7) or TCP/IP, OPC-AE, serial.

PROTOS 2.0 features a parser, which parses the alarms/reports and breaks them down into individual elements.

Among others, they are broken down into the following elements:

- Date/time
- Channel (data source)
- Tagname/ measurement point tag
- Area, function, aggregate
- Alarm priority
- Alarm status
- etc.

The parser has a rules generator that enables individual adaption to suit the customer's respective conditions.

The parsed alarms/reports are transmitted into a SQL-DB by PROTOS 2.0.

If the SQL database is not available, the alarms/reports are buffered and recorded later.

To enhance performance the data is reorganised in the database cyclically.

Licensing:

Four data sources can be connected to a PROTOS 2.0 DataServer. The number of DataServers within a PROTOS 2.0 system is limited by the performance of the SQL-DB. The number of clients that can be connected to the database is limited by the licensing or performance of the SQL server.

The implementation of the PROTOS 2.0 database

is carried out on SQL servers (MS) owned by the customer.

It is also possible to record redundant alarms/messages.

The FrontEnd offers a language change-over that can be extended individually.

Function and Performance Features

- Manufacturer-independent archiving and analysis of alarms and messages
- No installation on the workstation PCs
- Extensive analyses and evaluations
- Archiving of the user settings on logging out
- Data archiving in the SQL database
- Parser for PCS7* and Teleperm M*
- Parser expandable for other data sources
- Adaption of the alarm/report formats per rules generator
- Recording channels can be assigned alias names
- Monitoring of the DataServer via HW-Watchdog
- Optimised for MS Internet Explorer V9.x-11.x
- Modular system for companies of all sizes
- Language change-over expandable
- Can be used on mobile end terminals (Tablets and smartphones)
- Evaluations are based on the ISA 18.2 and EEMUA 191 norms



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