

UNITROL® Excitation Control Terminal

Empowering operation, control and maintenance

The UNITROL Excitation Control Terminal (ECT) is used for monitoring and controlling of UNITROL excitation systems. It can be located at the excitation system as a door panel for local control and / or in the central control room for remote operation.



Front view of the ECT showing the power chart screen

The ECT is a powerful industrial PC with a human machine interface (HMI) that runs independently from the system's computer processing units (CPUs). It is optionally provided with UNITROL 5000 and UNITROL 6000 systems or can be added to such systems at a later stage. The LCD touch screen provides the operator with a range of selectable screens for interactive excitation control. The current system status is displayed in graphical and numerical form. Key data is always visible on the system status bar.

The device is supplied with powerful analytical tools that support troubleshooting. For important data, ECT provides long-time recordings and auto-save functions on its internal memory. These data can be displayed or downloaded for further investigation. ECT software can also be installed on any PC with Windows® XP and Windows® 7 operating systems.

Operational features

Independent industrial PC with 12" or 15" color touch screen
TCP communication
Password protected access levels
Selectable languages (including Chinese)

System status bar

The following information is always visible, independent of the selected screen:

- System status
- Indication of present access level
- Menu bar for screen selection
- Control / indication of actual set-point

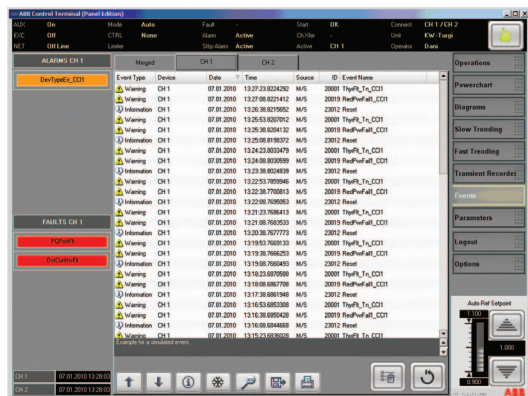
Power chart

- Capability curve of the machine
- Setting characteristics of all limiters
- Actual machine current vector
- One hour history of the operating point

Examples of available screens

Events

- Indication of pending faults and alarms in each channel and log list
- Event description with troubleshooting instructions in major languages
- Saving and re-loading of event list
- Print and export function



Example of events screen

Trending

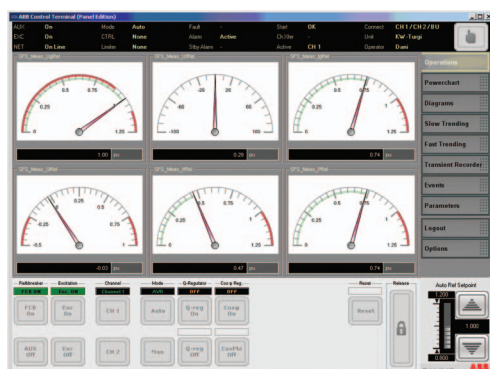
- Up to 12 selectable signals
- Trending (2.5 ms - 1 s sampling rate) with long-time recording (up to 24 h)
- Saving and re-loading of trending
- Auto scaling / zoom and single channel indication



Example of trending screen

Operation

- Six selectable signals displayed as analog instruments providing full machine instrumentation
- Configurable command buttons for system control



Example of operation screen

Data logger

- Easy handling of recorded data
- Auto-save and reset function

Parameters

- Reading and setting of parameters
- Description of major parameters in selected languages
- Parameter selection / user defined table
- Parameter export and import function

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