GRID AUTOMATION PRODUCTS

All-inclusive power automation solution.
MicroSCADA Pro SYS600C

- Maximum robustness guarantees long meantime
- Extensive connectivity to both legacy and future connections
- Fault tolerant to ensure high availability
- Simple integration with great capacity
Designed for critical applications, where reliability is essential. Constant control – anywhere, anytime.

MicroSCADA Pro SYS600C is the ideal automation solution for all harsh environments in both transmission and distribution substations.

As a robust industry grade computer, it has no internal moving or otherwise vulnerable parts and therefore MicroSCADA Pro SYS600C has a long and guaranteed lifetime. In a robust and compact package it offers proven MicroSCADA Pro functionality for real-time monitoring and control of primary and secondary equipment.

MicroSCADA Pro SYS600C software has high scalability and modern architecture enabling easy integration to other systems. Copy and paste function makes it easy to expand the application. This way, the MicroSCADA Pro SYS600C ensures efficient engineering and system integration. You can enjoy its ease of use as a communication gateway, as a control system HMI or communication server in both industrial control and electrical utility applications.

Pre-configured from the factory
Delivered from the factory with tested and pre-installed software and a product specific hardening, MicroSCADA Pro SYS600C requires only minimal engineering before installation and commissioning.

IEC 61850-compliant
Compliant with the IEC 61850 standard for substation automation including Edition 2. This means that MicroSCADA Pro SYS600C can operate together with any IEC 61850-compliant IED, tool and system.

Software and industrial design created to simplify system integration and day to day use. The MicroSCADA Pro SYS600C ensures optimized control and reliable operation of the switchyard through the seamless integration and connectivity between different devices and systems. It features a wide selection of communication protocols and interfaces and is thus open for any SCADA or Distributed control system.

<table>
<thead>
<tr>
<th>Description</th>
<th>Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>8 GB</td>
</tr>
<tr>
<td>Storage device</td>
<td>64/128 GB Disk</td>
</tr>
<tr>
<td>Capacity</td>
<td>Up to 400 IEDs over IEC 61850</td>
</tr>
<tr>
<td>Serial port</td>
<td>10 RS232/485 Serial ports</td>
</tr>
<tr>
<td>LAN port</td>
<td>8 electrical LAN ports (RJ45)</td>
</tr>
<tr>
<td></td>
<td>4 Optical LAN ports (LC), Optional</td>
</tr>
<tr>
<td>USB</td>
<td>4 USB ports</td>
</tr>
<tr>
<td>Power supply</td>
<td>110/220 V Power Supplies (AC&amp;D&amp;C)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>19&quot; rack mountable, 3U high</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating temperature: -30°C to +65°C</td>
</tr>
<tr>
<td></td>
<td>(-22°F to 149°F)</td>
</tr>
</tbody>
</table>

Maximum robustness
Guaranteeing long meantime between failures
• Utility grade protection. Environmental and electromagnetic characteristics compliant to IEC 61850-3 & IEEE1613
• Closed chassis design offering robust operation in all conditions
• Advanced security management incorporating intrusion and virus protection, application white-listing, session authentication and authorization
• Reliability proven by extensive in-house and external testing

Fault tolerant
High availability through critical component re-assurance. Maximizing fault tolerances with redundant functions:
• Communication links to ensure connectivity
• Power supplies to ensure availability
• Disks to ensure availability
• Redundant computers to protect from hardware and software failures

Extensive connectivity
Designed with legacy and future connectivity in mind
• Effortless migration to a new system, expansion of an old system with new technology
• Simple system set-up as no additional devices are needed to ensure the connectivity
• Wide selection of interfaces HDMI, VGA, USB, eSATA, PCI/PCIe expansion, ethernet and serial ports

Capacity
Simple integration with high capacity
• Connects hundreds of protection and control IED’s to substation automation or industrial control systems
• Reliable long term storage for events and historical data over decades

MicroSCADA Pro SYS600C
High availability through critical component re-assurance. Maximizing fault tolerances with redundant functions:
• Communication links to ensure connectivity
• Power supplies to ensure availability
• Disks to ensure availability
• Redundant computers to protect from hardware and software failures