********Rugged network infrastructure in accordance with IEC 61850-3 and IEEE 1613**

Phoenix Contact provides heavy-duty components for network infrastructure in energy systems. Our components conform with both IEC 61850-3 and the comparable IEEE 1613 standard.

In order to prevent system failure, the components used in system networks must be able to cope with harsh electromagnetic, electrostatic, and climatic environmental conditions. The international standard IEC 61850 requires, in addition to special protocol and data specifications listed in Part 3, that network and automation products meet these special standards.

Phoenix Contact makes both managed and unmanaged switches, media converters, and redundancy modules for designing tailor-made networks within energy systems. Managed switches are available in a both DIN rail format and 19”rack versions.

In addition, redundancy modules support the Parallel Redundancy Protocol (PRP). The protocol allows network devices to be integrated into two parallel networks, providing high failsafe system security and seamless redundancy with almost zero switchover times, for applications requiring high availability. Network products are generally manufactured to function independently of a specific protocol, so that they can also be used in networks based on other protocols, for example DNP 3.0 and IEC 60870–5–104.

**Ends**

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