

STN-9150 in Freestanding Cabinet

The perfect choice for:

- **Hardwired Substation or Feeder Data Acquisition and Control**
- **Intelligent Electronic Device Data Concentration**
- **Substation Closed Loop Control for Volt-VAR Management**
- **Pole Top Installation for Distribution Sectionalizing**

QEI's RTU platforms are designed to act as communication nodes between the SCADA Master Station, the local RTU I/O panels, and the ever growing suite of Intelligent Electronic Devices (IEDs) now used in electric utilities. Available in freestanding, rack mounted, or wall/pole mounted enclosures, these models can be configured to match your exact requirements.

The STN-9150 and STN-9050 are designed to respond to queries from one or more SCADA master stations using one or more serial or TCP/IP based communications channels. DNP3, Modbus, L&G 8979 and a large library of legacy SCADA protocols are available for your use.

The STN-9150 and STN 9050 can monitor not only hardwired status, analog and control points but can concentrate data from the intelligent electronic devices you have present on your network using all common IED protocols such as DNP3, Modbus, PGE-2179, SEL Fastmeter/ASCII and others.

The STN-9150 is housed in a large freestanding or wall mounted enclosure with front access and uses a modular set of I/O panels for hardwired status, analog, accumulator and control inputs. These hardwired I/O panels are connected by chained ribbon-cable connections. The STN-9050 is housed in a smaller, wall/pole mounted cabinet and uses a single, fixed point count



multifunction I/O panel for its hardwired points.

The base RTU microprocessor module supports both RS-232 and RS-485 connections for both master station and IED communication and serial port expansion (up to 40 ports). An add-on daughterboard will supply TCP/IP connectivity through two ethernet ports.

The data points for I/O boards and IEDs are mapped for communications using our Windows® based CONFIGWIZ® software. Any value retrieved from an IED or data panel may be mapped to one or more communications ports regardless of protocol, communications medium, baud rate or polling method. The STN-9150/9050 RTUs are very useful for matching legacy communication channels and protocols to your current enterprise network.

Ideal for substation data concentrator or distribution feeder applications

Both the STN-9150 and the STN-9050 support the following features:

- Server Protocols (to Master station): DNP3, L&G 8979 (Serial and over IP), Modbus (RTU and TCP), QUICS (Serial and over IP), Tejas/Valmet Series III/V, BETAC, CDC I & II, Conitel, and others.
- Client Protocols (to IEDs): DNP3 (serial and over IP with secure authentication), Modbus (RTU and TCP), SEL Fastmeter/ASCII with device discovery.
- Local or remote web browser interface.
- Programmable Logic and Communications Control (PLCC) capability for user defined closed loop control algorithms.
- Hardwired I/O limits for STN-9150 : 256 Status, 128 analog, 128 Control.
- Hardwired I/O limits for STN-9050: 16 status, 8 analog, 4 control points.
- Configuration is accomplished through secure CONFIGWIZ® management program via local maintenance port or local/remote IP connection. A full complement of data filtering, port switching, IED I/O control, and other management/diagnostic functions are present.
- Power input: 120VAC, 24Vdc, 48Vdc or 125Vdc.
- 1 msec Sequence-of-Events (SOE) status and optional IRIG-B clock input.

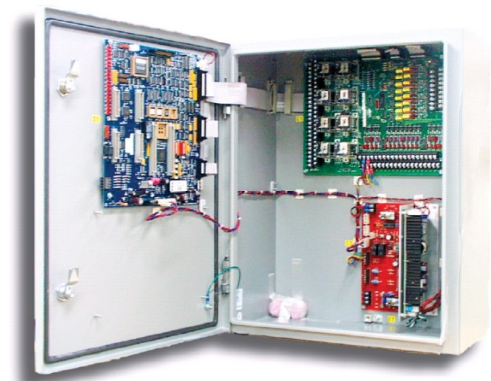
CONFIGWIZ® Software for Easier Setup



ConfigWiz provides a drag & drop, Windows® user interface which prompts the technician through the steps required to define an RTU:

- configuration of all communication ports
- selection of IED communication clients
- selection of Master Station communication servers
- mapping of the data points between the RTU's IED client database and Master Station server database

When the configuration process is complete, the resultant RTU configuration file is PC archived for long term storage, and then compiled and downloaded into the STN-9150/9050 for execution.



The STN-9050 RTU is supplied in a front access, NEMA 4 enclosure for a smaller installation footprint.

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