

DRT-9070 Distributed Remote Terminal



Mini-RTU and IED Gateway

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The DRT-9070 Remote Terminal Unit is an economical distributed automation platform used for control, supervision, data acquisition and data reduction. The DRT-9070 can act as a mini-RTU, a distributed input-output point on your distribution network and as an Intelligent Electronic Device (IED) data concentrator.

The DRT-9070 maintains an internal database by scanning local hardwired inputs as well as the status and analog points within connected IEDs. These values may be polled by one or more SCADA master stations over a variety of protocols and media. Then The DRT-9070 also time tags events which are available to the SCADA system's master station, as sequence-of-events (SOE) data.

The DRT-9070 can be configured for communications through its RS-232 or RS-485 serial ports. Optionally it can be equipped with a network interface for communication over one or two TCP/IP based networks. Popular communications protocols are available for both the server connection (to the master station) as well as locally to the IEDs.

The DRT-9070 can operate on 120 VAC service or directly from the station battery. This arrangement can also provide the battery backup for local communications equipment (radios, routers, etc.)

Master and IED communications ports and other parameters are easily entered with QEI's ConfigWiz® software from any standard Windows® laptop or PC.

The DRT 9070 is an economical mini-RTU/Gateway for **distributed monitoring and control functions.**

Wall or pole-mounting

Substation or distribution feeder IED Gateway

Supports a large library of master station and IED protocols

Optional TCP/IP, web server interface

Local calculation package for date manipulation, reduction and automation.

Advanced security features for NERC-CIP compliance

Sequence-Of-Events (SOE) capture

Meets all applicable IEEE and IEC surge withstand requirements for trouble free operation

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SPECIFICATIONS

Control Outputs	3 control points each with 2 momentary Form C contacts, 10 amps @ 30 Vdc/277 VAC
Status Inputs	24 contact inputs, optically isolated. Meet IEEE C37.1.90 SWC. 12, 24 48 or 125 Vdc keying voltage.
Ports	One RS 232C and one RS-485 client or server ports (user configurable). One Diagnostic and programming RS-232 Port. Optional network interface card with 10baseT (RJ45) or 10baseAUI (DB15), 100baseTX (RJ45) or 100baseFX (multi-mode or single mode), RS232 PPP communication port and RS232 diagnostic port
Protocols	Server: DNP or Modbus Single Client: DNP or Modbus Web Server Other Legacy Server (master Station) and Client (IED protocols) available from the QEI Automation Systems library
Power	1.0 Amp@120 VAC, 60 Hz, single phase (optional battery backup) 1.0 Amp@125 Vdc 1.5 Amp@48 Vdc 3.0 Amp@24 Vdc
Physical	with optional thermostatic heater. 24”H 20” W 10” D NEMA 4 metal enclosure with front access
LED Indicators	12 LED Indicators to monitor power, communications and central processor
Enclosure	NEMA 4, 24” X 20” X 10” front access cabinet, weight 80 lbs for wall or pole-top mounting.

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