

## Transducerless IED Gateway



# DRT-9060 Distributed Remote Terminal

## Transducerless I/O Platform for your SCADA Network

### Transducerless Monitoring and IED Gateway

The DRT-9060 provides you with the platform for remote interrogation of IEDs or permits transducerless monitoring and control when there is no IED available. It is the ideal platform for implementing your distribution automation projects.

Directly accepting line post sensor outputs or instrument transformer secondaries, the DRT-9060 automatically computes and reports a large family of values for your use in controlling your feeders or network devices. Computed values include:

<b>Phase A, B, C Fault Currents</b>	<b>Neutral Current</b>
<b>Phase A, B, C, &amp; total circuit Watts</b>	<b>+/- Watt hours</b>
<b>Phase A, B, C, &amp; total circuit VARs</b>	<b>+/- VAR-hours</b>
<b>Phase A, B, C, &amp; total circuit VA</b>	<b>Switch Operations Counters</b>
<b>Phase A, B, C, and avg. circuit PF</b>	<b>Internal Temperature</b>

### Distribution Automation Platform

The DRT-9060 is specifically designed for the rugged feeder environment, and for use with the serial or TCP/IP based communications infrastructure of your choice. Popular communications protocols are available for both the server connection (to the SCADA master station) as well as locally to the IEDs.

Housed in a rugged front access cabinet, the DRT-9060 has the space and battery-backed power for use with popular data radios and network interface hardware. Low power requirements will make maximum use of your supply, without sacrificing durability.

The DRT 9060 provides standard RTU monitoring and control as well as permitting more advanced functions such as:

Extracts and concentrates data from any IEDs

Provides pass through tunnel access to IEDs and other field devices

Optional TCP/IP, web server interface

Create sophisticated automation scripts, for voltage, capacitor or feeder management

Automate Distribution line sectionalizing with **QEI Automation Automatic Switch Controller Software (ASwC™)**

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

Support a wide variety of communication hardware and software protocols

# Transducerless IED Gateway

## SPECIFICATIONS

Control Outputs	3 control points each with 2 momentary Form C contacts, 10 amps @ 30 Vdc/277 VAC												
Status Inputs	8 contact inputs (configurable as pulse accumulators), optically isolated. Lmes SOE												
AC Analog Inputs	<p>Directly measures 3 phase AC voltages and currents with fault sensing on each. A partial list of the values computed include:</p> <table border="0"> <tr> <td>Phase A, B, C Fault Currents</td> <td>Neutral Current</td> </tr> <tr> <td>Phase A, B, C and total circuit Watts</td> <td>+/- Watt hours</td> </tr> <tr> <td>Phase A, B, C and total circuit VARs</td> <td>+/- VAR-hours</td> </tr> <tr> <td>Phase A, B, C and total circuit VA</td> <td>Switch Operations Counter</td> </tr> <tr> <td>Phase A, B, C and avg. circuit PF</td> <td>Control Commands Counter</td> </tr> <tr> <td>Internal Temperature</td> <td></td> </tr> </table>	Phase A, B, C Fault Currents	Neutral Current	Phase A, B, C and total circuit Watts	+/- Watt hours	Phase A, B, C and total circuit VARs	+/- VAR-hours	Phase A, B, C and total circuit VA	Switch Operations Counter	Phase A, B, C and avg. circuit PF	Control Commands Counter	Internal Temperature	
Phase A, B, C Fault Currents	Neutral Current												
Phase A, B, C and total circuit Watts	+/- Watt hours												
Phase A, B, C and total circuit VARs	+/- VAR-hours												
Phase A, B, C and total circuit VA	Switch Operations Counter												
Phase A, B, C and avg. circuit PF	Control Commands Counter												
Internal Temperature													
DC Analog Input	One DC analog input 0 ±1 mA dc, 4-20 ma, 0-5 Vdc standard scaling, resolution 16 bits ,0.1%. CMRR: 90dB common mode, 70 dB normal mode noise rejection@60 Hz												
Ports	<p>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</p>												
Protocols	<p>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</p>												
Power	<p>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</p>												
LED Indicators	12 LED Indicators to monitor power, communications and central processor												
Physical	with optional thermostatic heater. 24”H 20” W 10” D NEMA 4 metal enclosure with front access												
Environment	-40° to +85° centigrade, 0 to 95% humidity (non-condensing)												

### QEI, LLC

60 Fadem Road  
 Springfield, NJ 07081 USA  
 T: +973-379-7400 F: +973-379-2138  
 E: [sales@qeinc.com](mailto:sales@qeinc.com)  
 W: [www.qeinc.com](http://www.qeinc.com)

This literature is for illustration purposes only. And is not part of any contract. As we have a policy of continuous product improvement, any features may be modified without notice. All trademarks and names mentioned in this document remain the exclusive property of their holder.