

## DRT-9080 Distributed Remote Terminal

### IED Gateway and Field Measurement of Three Phase Voltage, Current and Power



The DRT-9080 provides you with the platform for remote interrogation of IEDs or transducerless monitoring and control where there is no IED available. It is the ideal platform for implementing your distribution automation projects.

The DRT-9080 can directly accept line post inputs or instrument transformer secondaries and automatically compute and report demand, consumption and power factor values necessary for your distribution automation programs such as automated sectionalizing, and Volt-VAR control. 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>Operations Counters</b>
<b>Phase A, B, C, and avg. circuit PF</b>	<b>Ambient Temperature</b>

#### Distribution Automation Platform

The DRT-9080 is specifically designed for the rugged feeder environment, and for use with your available serial or TCP/IP based communications infrastructure. Built in serial, fiber and Ethernet interfaces will permit the DRT-9080 to grow with your system. A large library of Client and Server communications protocols will allow easy interface to your existing IEDs and SCADA master stations.

Housed in a rugged, front access cabinet, the DRT-9080 has the space and battery-backed power for use with popular data radios and your existing network interface hardware.

#### The DRT-9080 is the ideal platform for your feeder automation applications:

- Capture fault waveforms for manual or automated retrieval
- Extracts and concentrates data from any IED
- Provides pass through network connection to an IED for engineering and programming purposes
- Full complement of serial ,TCP/IP, web server, and HMI interfaces
- Permits sophisticated automation scripts, for voltage, capacitor or feeder management
- Internal algorithms for implementing automated sectionalizing
- Large library of client and server protocols
- Convenient MicroSD and USB interfaces for programming and memory access
- Real time clock with supercap backup

# DRT-9080

## SPECIFICATIONS

<b>Control Outputs</b>	4 control points each with 2 momentary Form C contacts, 10 amps @ 30 Vdc/250VAC
<b>Status Inputs</b>	12 contact inputs (configurable as pulse accumulators), optically isolated.
<b>AC Analog Inputs</b>	Two sets of three phase voltage inputs . Two sets of three phase current inputs. (Phase A,B,C) Phase A, B, C Fault Currents Phase A, B, C and total circuit Watts Phase A, B, C and total circuit VARs Phase A, B, C and total circuit VA Phase A, B, C and avg. circuit PF Ambient Temperature Neutral Current +/- Watt hours +/- VAR-hours Switch Operations Counter Control Commands Counter
<b>DC Analog Input</b>	One DC analog input 0 ±1 mA dc, 4-20 ma or 0-5 Vdc standard scaling, resolution 16 bits ,0.1%. CMRR: >70dB common mode noise rejection@60 Hz
<b>Ports</b>	One RS 232C and one RS-485 client or server ports (user configurable). One diagnostic and programming USB 2.0 Port. One USB 2.0 HMI port One 100BaseTX Ethernet port One 100BaseFX Ethernet port One 10BaseFL Serial Fiber Port One TTL level serial expansion port
<b>Server Protocols</b>	DNP3 (serial and over IP with secure authentication), Modbus. Large library of legacy protocols.
<b>Client Protocols</b>	DNP3 (serial and over IP with secure authentication), Modbus, and Fastmeter.
<b>Power</b>	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
<b>Physical</b>	24”H 20” W 10” D NEMA 4 metal enclosure with front access. –40° to +85° ( 40° to 185°C)
<b>Environment</b>	-40° to +75° C, 0 to 95% humidity (non-condensing)

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