

# Voltage and Current Transmitter DigiRail-VA

Johannesburg Branch

MIMIC COMPONENTS

Cape Town Branch

Mimic Cape

The **DigiRail-VA** is the latest addition to the successful and cost effective **DigiRail** family. Specifically designed for single phase AC power analysis applications, it is able to measure the most important AC signals and retransmit them in both analog and digital ways.



## Measured parameters

- Voltage: 0 to 300 Vac (True-RMS)
- Current: 0 to 5 Aac (True-RMS) - Allows CTs for higher current applications
- Active power, reactive power and apparent power
- Power Factor: 0.00 to 1.00
- Frequency: 45 to 65 Hz

## Features

All in a single and compact DIN rail mounting unit featuring RS485 /Modbus-RTU interface as standard, allowing easy access to all parameters by any SCADA package or PLC with Modbus interface

- Analog retransmission (user selectable 4-20mA and/or 0-10V by software)
- Full 2500 Vrms isolation between the high voltage/current inputs and the low voltage signals
- Voltage, Current & Power readings accuracy over RS485 is +/- 0.25% and +/- 0.5% over the Analog Retransmission
- Frequency and Power Factor readings accuracy over RS485 is +/- 0.5% and +/- 1% over the Analog Retransmission
- Wide Range 10-40 Vdc power supply

## Applications

### • Load Profiling

Relating the energy consumption with facility operation  
Identifying peak demand times

### • Energy cost allocation

Splitting the total energy consumption among site consumers  
Energy cost analysis

### • Distribution system management

Remote facilities power management

### • Energy monitoring

Measurement, tracing and trending to generate alarms and exceptions

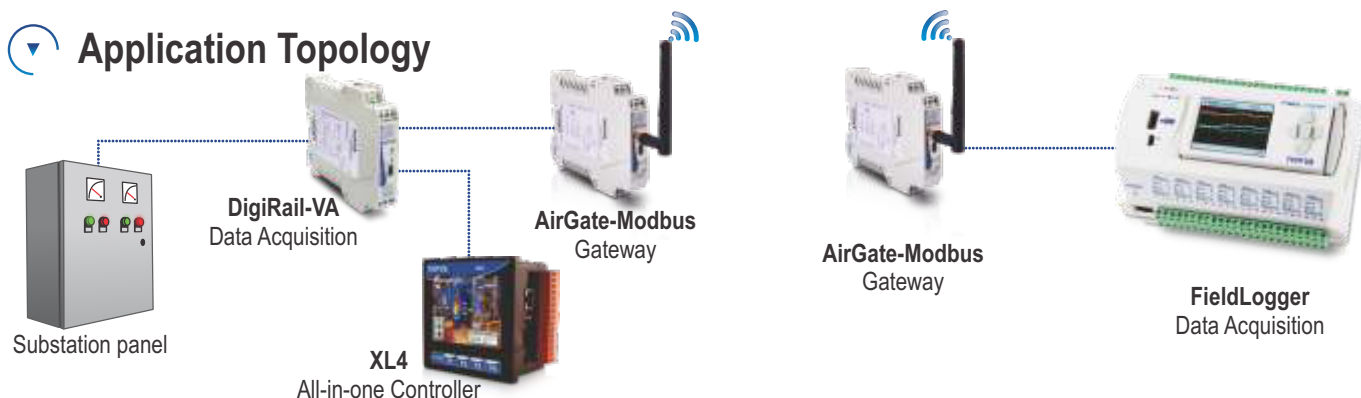
### • Demand management

Load switching control and peak monitoring

### • Emergency load relocation

Ensure energy stability during exceptions

## Application Topology



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