

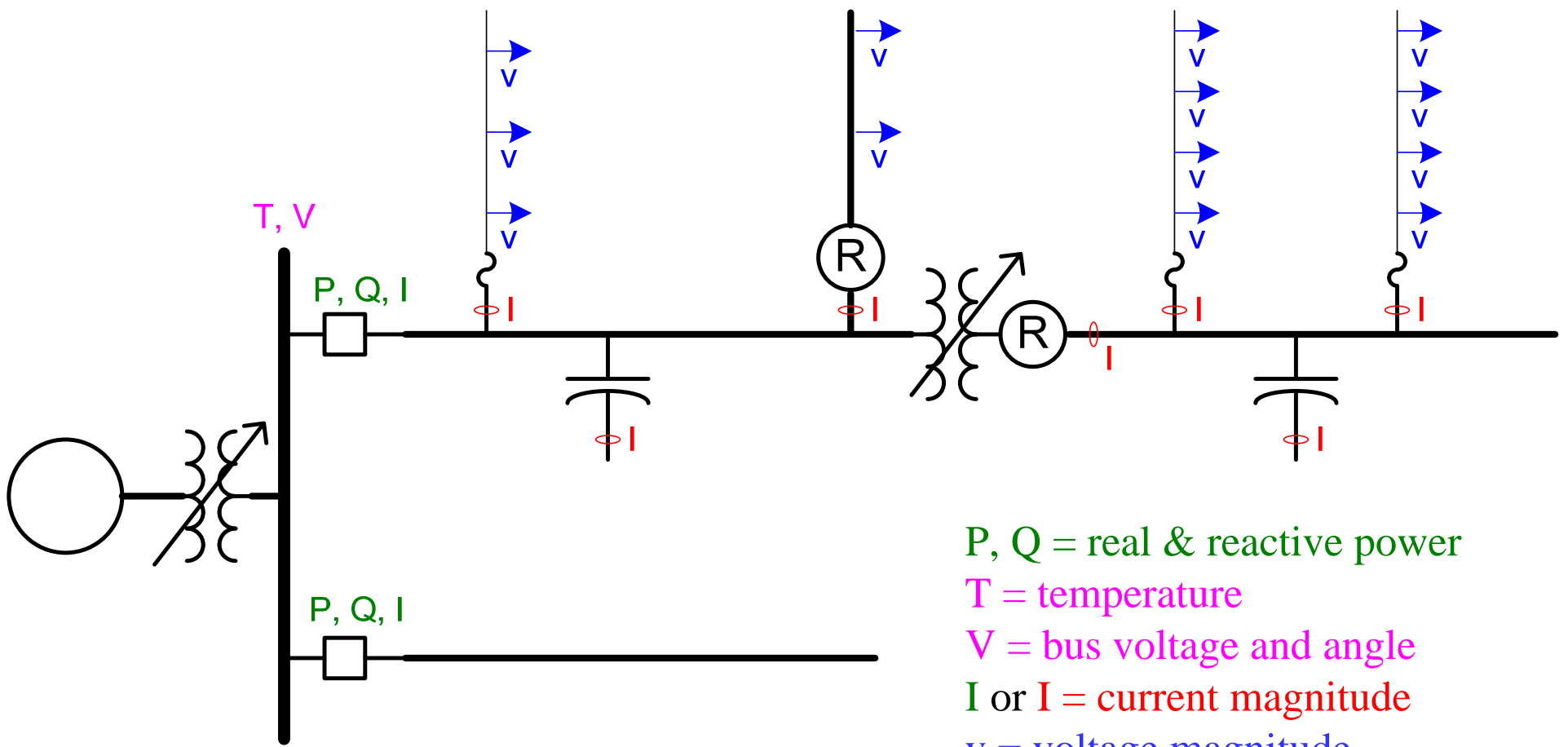
Feeder State Estimation with AMI and Advanced Sensors

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What is Feeder State Estimation?



P, Q = real & reactive power
T = temperature
V = bus voltage and angle
I or I = current magnitude
v = voltage magnitude

Benefits of State Estimation

- Improved reliability
 - Locate faults quicker
 - Restore power quicker, to more customers and with less risk of creating more problems
 - Avoid overloads
 - Adaptable overcurrent protection
- Better asset utilization
 - Balance loads among feeders and phases
 - Control and dispatch of distributed generation
 - Volt/VAR control on feeders
 - Just-in-time feeder upgrades and maintenance
- Predict load response to market or other signals

LightHouse™ Solution Overview

