

WattNode® Pulse Electric Energy Meter

Engineering Specifications

1. The pulse energy meter shall make real energy measurements on single and multi-phase electrical circuits.
2. The energy meter shall transmit the following readings:
 - a. Real positive energy pulses (watts) total for all phases
 - b. Real negative energy pulses (watts) total for all phases
 - c. Option for second total positive energy pulse output
 - d. Option for three individual phase pulse outputs
 - e. Option for Kh watt-hours per pulse constant
 - f. Option for pulse width
 - g. Other custom output capabilities are available as factory options
3. The energy meter pulse outputs shall be optically isolated to 5000 Vac RMS
4. The power meter shall derive operating power from its metering connections, and shall not require a separate power connection.
5. Energy meter models must be available to directly accept voltage input at one of the following voltages: 120, 208-240, 277, 347 or 480 Vac (50 or 60Hz).
6. The energy meter shall accept 0 to 0.333 Vac input from up to three current transducers.
7. The energy meter shall be fitted with detachable terminal blocks for all wiring connections.
8. The energy meter shall be calibrated with NIST traceable standards to an accuracy of 0.5% or better.
9. The energy meter shall operate from -30°C to $+55^{\circ}\text{C}$.
10. The energy meter shall have dimensions not exceeding 6.1" x 3.4" x 1.5".
11. The energy meter shall be Continental Control Systems' WattNode Pulse model.