

# POWER MONITORING & PROTECTION

## WATTNODE AC POWER METER WNC SERIES

### DESCRIPTION

The **Continental Control Systems WNC Series** of AC Power measurement meters are available in pulse output or will support several communication protocol outputs. True power, kWh reactive power, VARs, power factor, and individual phase measurements. Diagnostic LEDs provide a per-phase indication of power (green flashing) and negative power (red flashing) to help troubleshoot connection problems such as swapped CT's or excessive live voltage. The meters use the safe Ct's producing 0.333 VAC at rated current. They have a small form factor for easy installation inside most electrical panels with pluggable screw terminals for easy wiring. Power Related Measurements - 50+ for BACnet and Modbus; 27+ for LonWorks.

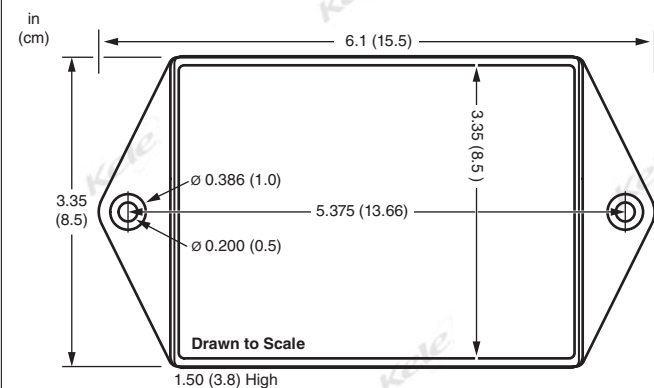
### FEATURES

- **BACnet, Modbus, Lonworks or Pulse**
- **1 to 3 Phase 120VAC to 600VAC**
- **0.5% nominal accuracy (see manual for details)**
- **Euroblock style pluggable screw terminal blocks**
- **Line powered**
- **Uses safe current transformers; 0.333V output**
- **Bidirectional**

### SPECIFICATIONS

|                                           |                                                                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supply Voltage</b>                     | 120 to 600VAC                                                                                                                                    |
| <b>CT Input</b>                           | 0.333V nominal, 3V maximum                                                                                                                       |
| <b>Communication Protocol</b>             | BACnet MS/TP (RS-485)                                                                                                                            |
| <b>Modbus RTU</b>                         |                                                                                                                                                  |
| <b>LonWorks Network Variables (SNVTs)</b> |                                                                                                                                                  |
| <b>Signal LEDs</b>                        | Diagnostic LEDs Provide per-phase indication of power (green flashing) and negative power (red flashing) on BACnet, Modbus and Pulse models only |
| <b>Operating Temperature</b>              | -22°F to 131°F (-30°C to 55°C)                                                                                                                   |
| <b>Operating Humidity</b>                 | 5 to 90% RH up to 104°F (40°C)                                                                                                                   |
| <b>Dimensions</b>                         | 5.63" x 3.34" x 1.5"<br>(14.3 x 8.5 x 3.8 cm)                                                                                                    |
| <b>Weight</b>                             | 0.7 lb (0.31 Kg)                                                                                                                                 |
| <b>Approvals</b>                          | CE, UL File #312220 FCC Class B, EN 55022 Class B, RoHs                                                                                          |
| <b>Warranty</b>                           | 5 Years                                                                                                                                          |

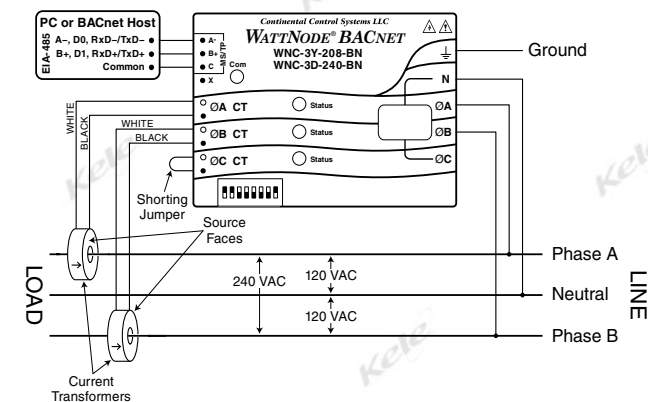
### DIMENSIONS



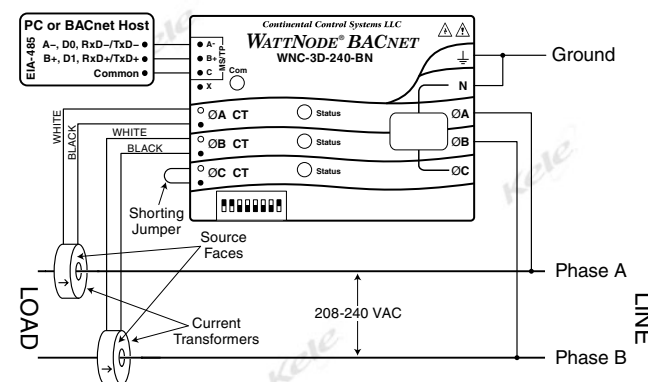
WNC Series



### WIRING



Single Phase Three-Wire, Mid-Point Neutral Wire



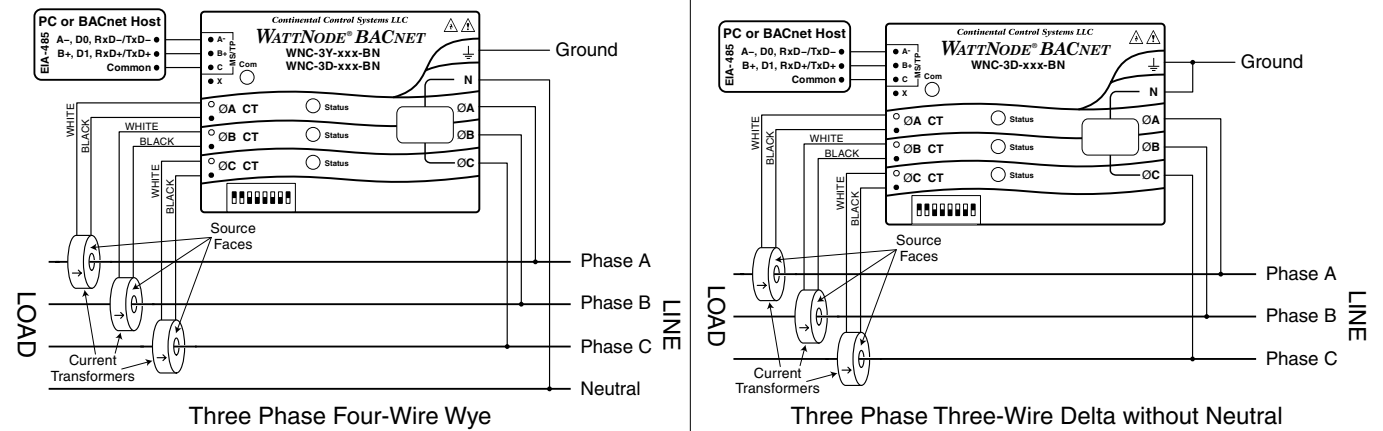
Single Phase Two-Wire without Neutral

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### WIRING



### ORDERING INFORMATION

| MODEL           | DESCRIPTION                       |
|-----------------|-----------------------------------|
| WNC-3Y-208-BN   | 3 Phase 4 Wire 120V/208V BACnet   |
| WNC-3Y-400-BN   | 3 Phase 4 Wire 230V/400V BACnet   |
| WNC-3Y-480-BN   | 3 Phase 4 Wire 277V/480V BACnet   |
| WNC-3Y-600-BN   | 3 Phase 4 Wire 347V/600V BACnet   |
| WNC-3D-240-BN   | 3 Phase 3 Wire 120V/208V BACnet   |
| WNC-3D-400-BN   | 3 Phase 3 Wire 230V/400V BACnet   |
| WNC-3D-480-BN   | 3 Phase 3 Wire 277V/480V BACnet   |
| WNC-3D-240-MB   | 3 Phase 3 Wire 120V/208V Modbus   |
| WNC-3D-400-MB   | 3 Phase 3 Wire 230V/400V Modbus   |
| WNC-3D-480-MB   | 3 Phase 3 Wire 277V/480V Modbus   |
| WNC-3Y-400-MB   | 3 Phase 4 Wire 230V/400V Modbus   |
| WNC-3Y-208-MB   | 3 Phase 4 Wire 120V/208V Modbus   |
| WNC-3Y-480-MB   | 3 Phase 4 Wire 277V/480V Modbus   |
| WNC-3Y-600-MB   | 3 Phase 4 Wire 347V/600V Modbus   |
| WNC-3D-240-P    | 3 Phase 3 Wire 120V/208V Pulse    |
| WNC-3D-400-P    | 3 Phase 3 Wire 230V/400V Pulse    |
| WNC-3D-480-P    | 3 Phase 3 Wire 277V/480V Pulse    |
| WNC-3Y-208-P    | 3 Phase 4 Wire 120V/208V Pulse    |
| WNC-3Y-400-P    | 3 Phase 4 Wire 230V/400V Pulse    |
| WNC-3Y-480-P    | 3 Phase 4 Wire 277V/480V Pulse    |
| WNC-3Y-600-P    | 3 Phase 4 Wire 347V/600V Modbus   |
| WNC-3Y-208-FT10 | 3 Phase 4 Wire 120V/208V LonWorks |
| WNC-3Y-400-FT10 | 3 Phase 4 Wire 230V/400V LonWorks |
| WNC-3Y-480-FT10 | 3 Phase 4 Wire 277V/480V LonWorks |
| WNC-3Y-600-FT10 | 3 Phase 4 Wire 347V/600V LonWorks |
| WNC-3D-240-FT10 | 3 Phase 3 Wire 120V/208V LonWorks |
| WNC-3D-400-FT10 | 3 Phase 3 Wire 230V/400V LonWorks |
| WNC-3D-480-FT10 | 3 Phase 3 Wire 277V/480V LonWorks |