



Upper Peninsula Power Company

## Appendix A

# UPPCO Meter Base Requirements

### 1. 100-200 Amp Single-Phase UG

- Requirements:
  - a. Ringless Type Meter Socket
  - b. Outdoor Enclosure (Nema type 3R)
  - c. 1 Phase, 3-Wire
  - d. 4 Jaw Meter Socket
  - e. Horn Bypass
  - f. Sealable
  - g. No cover over meter
  - h. UL Listed
- Options:
  - Schneider Electric
    - UHT-RP2423-63
      - Extension: 1007680 (18") or 1008786 (30")
      - Available at Standard Electric
  - Cutler Hammer
    - UHT-RP2423-63-CH
      - Extension: 1007680-CH (18") or 1008786-CH (30")
      - Available at Menards
  - Midwest
    - UHT-RP2423-63-MEP
      - Extension: 1007680-MEP (18") or 1008786-MEP (30")
  - Landis & Gyr (Siemens)
    - UAP317-PPWI
      - Extension: 18" kit = 5007726 30" kit = 5007727
  - Millbank
    - U3358-0-KK
      - Extension: 15" K5800
      - Available at Westphal Electric
    - U1980-O-KK (Conduit entry)
      - Must have slip joint
      - Must have elbow below ground level
      - Minimum 2" conduit size
  - Midwest (100 Amp)
    - R101CP6

## 2. 100-200 Amp Single-Phase UG with Main

- Requirements:
  - Ringless Type Meter Socket
  - Outdoor Enclosure (Nema type 3R)
  - 1 Phase, 3-Wire
  - 4 Jaw Meter Socket
  - Horn Bypass
  - Sealable
  - No cover over meter
  - UL Listed
  - Options/Examples:
  - Milbank
    - NU8980
      - K3701 connector block required to replace breaker
    - U3358-O-KK
      - K3082 set screw connector kit required.
    - U5925-O-200-KK
      - Meter main with load center
  - Cutler Hammer
    - 1008846-CH
    - Extension: 1009021-CH (18") or 1009024-CH (30")
    - Available at Wesco
  - Eaton
    - MHR100P Series
      - MHR100P Series Extension: CHPEDEXT100
    - MHR200P Series
      - MHR200P Series Extension: MHPEDEXT
      - ~~MHR200P1MMBPH~~ (Main breaker and 8 spaces)
        - **Removed due to poor locking mechanism**
    - Available at Menards & All-Phase
  - Siemens (Main breaker and 20 space circuit)
    - MC2040B1200RJBC (add extension)
    - Available at Home Depot
  - **Mobile homes:**
    - Milbank U5844-PXL-200
    - Eaton MB816B200BTSD

**3. 100-200 Amp Single-Phase OH**

- Requirements:
  - a. Ringless Type Meter Socket
  - b. Outdoor Enclosure (Nema type 3R)
  - c. 1 Phase, 3-Wire
  - d. 4 Jaw Meter Socket
  - e. Horn Bypass
  - f. Sealable
  - g. No cover over meter
  - h. UL Listed
- The Company has no list of approved sockets for this application. The meter base shall meet the requirement above and be securely mounted. NEC 110.13(A)

**4. 320 Class / 400 Amp Single-Phase OH**

- Requirements:
  - a. Ringless Type Meter Socket
  - b. 4 Jaw Meter Socket
  - c. 320A Continuous, 400A Max
  - d. Outdoor Enclosure (Nema type 3R)
  - e. Bypass Lever
  - f. Rated 600V AC
  - g. Sealable
  - h. 1 Phase, 3-Wire
  - i. No cover over meter
  - j. UL Listed
- The Company has no list of approved sockets for this application. The meter base shall meet the requirement above and be securely mounted. NEC 110.13(A)

**5. 320 Class / 400 Amp Single-Phase UG**

- Requirements:
  - a. Ringless Type Meter Socket
  - b. 320A Continuous, 400A Max
  - c. Rated 600V AC
  - d. Outdoor Enclosure (Nema type 3R)
  - e. 1 Phase, 3-Wire
  - f. 4 Jaw Meter Socket
  - g. Bypass Lever
  - h. Sealable
  - i. No cover over meter
  - j. UL Listed
- Options/Examples:
  - Milbank
    - U1748-O-WI
    - U4363XQGK3K2
    - Extension: S1848
    - Available at All-Phase

- Schneider Electric
  - 1009018
  - Extension: 1009023 (18") or 1009026 (30")
- Cutler Hammer
  - 1009018-CH
  - Extension: 1009023-CH (18") or 1009026-CH (30")
  - Available at Menards
- Midwest
  - 1009018-MEP
  - Extension: 1009023-MEP (18") or 1009026-MEP (30")
- Durham
  - 1009018
  - Extension: 1009023 (18") or 1009026 (30")
- Landis & Gyr
  - 47604P-9WI

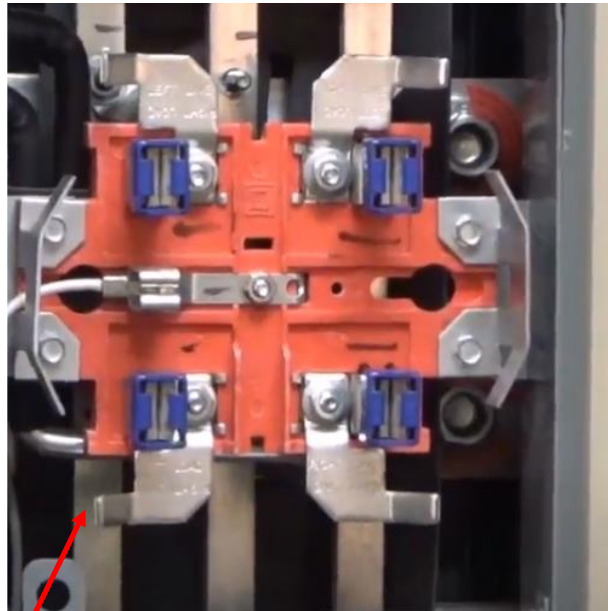
#### **6. 320 Class / 400 Amp Single-Phase UG with two 200A Main Breakers**

- Requirements:
  - a. Ringless Type Meter Socket
  - b. 4 Jaw Meter Socket
  - c. 320A Continuous, 400A Max
  - d. Bypass Lever
  - e. Rated 600V AC
  - f. Sealable
  - g. 1 Phase, 3-Wire
  - h. UL Listed
- Options/Examples:
  - Durham
    - 1009017
    - Extension: 1009022 (18") or 1009025 (30")
  - Cutler Hammer
    - 1009017-CH
    - Extension: 1009022-CH (18") or 1009025-CH (30")
    - Available at Menards
  - Milbank
    - U3849-0-2/200
    - U3849-0-INV
    - (no extension available)
    - Available at All-Phase

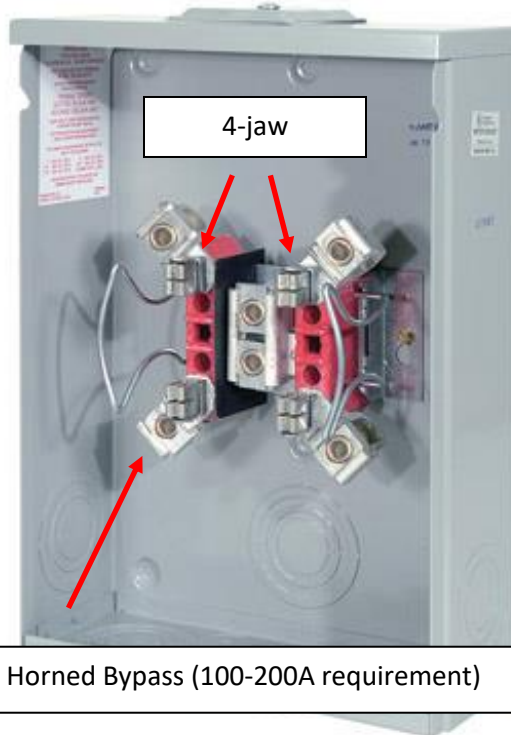
## 7. Multi-occupancy dwelling

- Requirements:
  - a. Ringless Type Meter Socket
  - b. Outdoor Enclosure (Nema type 3R)
  - c. 1 Phase, 3-Wire
  - d. 4 Jaw Meter Socket
  - e. Horn Bypass
  - f. Sealable
  - g. No cover over meter
  - h. UL Listed
- Options/Examples:
  - Siemens
    - WP6412 Uni-Pak (1ph - 120/240, 600a)
      - 1. Available at Menards
  - Square D
    - EZ Meter Pak series -
      - 1. EZM31600GCBU (3ph – 120/208, 1600a)
      - 2. EZMH113125 (1ph - 120/240, 125a)
      - 3. MPH22125 – two sockets (1ph - 120/240, 125a)
      - 4. EZML112225 (1ph – 120/240, 225a)
      - 5. EZM1800TB (800a terminal box)
      - 6. Available at Graybar and Standard Electric

Examples:



Horned Bypass (100-200A requirement)  
5 jaw network meter socket



Horned Bypass (100-200A requirement)

