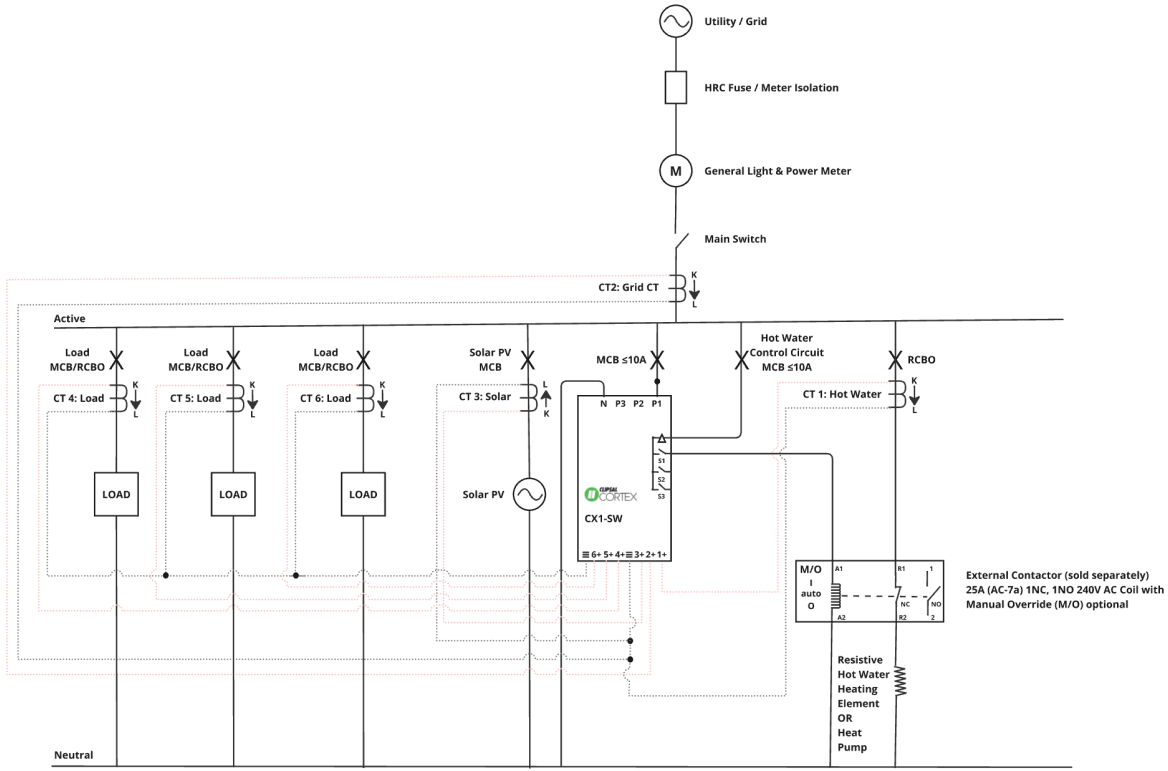
Clipsal Cortex HEMS Load Control Wiring Diagram (CX1-SW)

Application: Control of Hot Water with Single element
Metering: General Light & Power
Supply: Single Phase
Rev: 2
Date: 13/06/2024
Author: Mitch Eadie

Legend

- AC Source
- HRC Fuse
- Meter
- Circuit Breaker (MCB) / RCBO
- Normally Open (NO) Contact
- Normally Closed (NC) Contact
- Current Transformer (Normal Polarity)
- Current Transformer (Reverse Polarity)
- Contactor Coil
- Heating Element
- Wiring Connection
- CT Secondary Wiring



Notes:
1.

Control Logic:

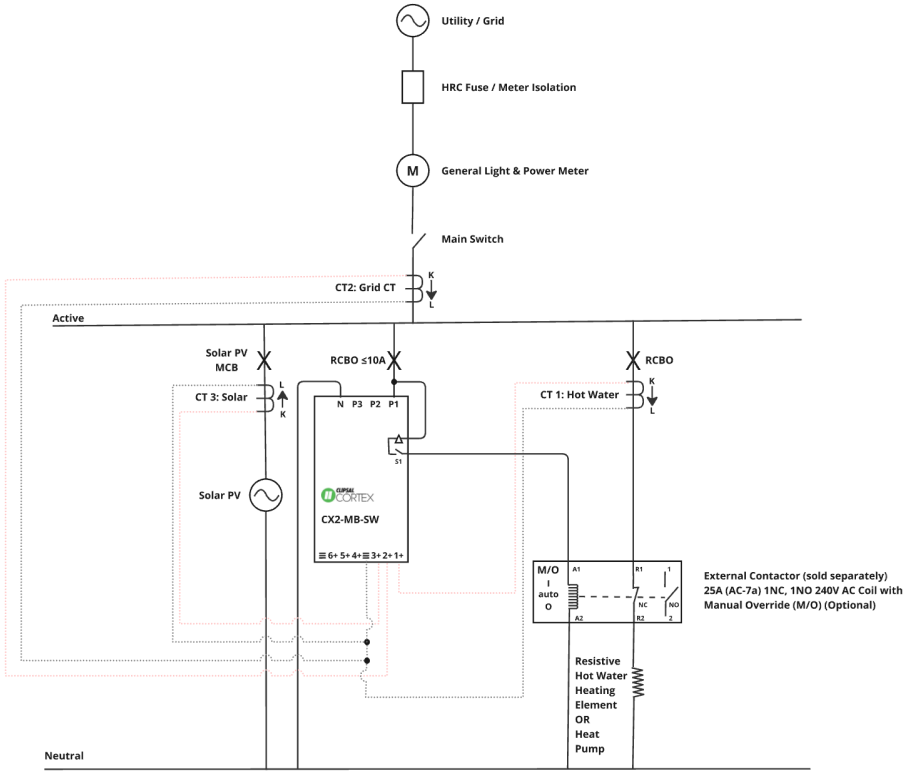
- Remote ON/OFF via Cortex App
- Time Schedule Example:
  - ON between 10AM-2PM
  - OFF all other times
- Mechanical ON / Auto / OFF of contactor via the contactor manual override switch
- Solar Soak logic Example:
  - ON if Export ≥ 3.6 kW for ≥ 15mins
  - OFF if Export = 0 kW for ≥ 15mins
  - Min run time 4 hrs per day
- Fail safe state is N/C under no comm's for 2 hrs
- Watchdog to fallback to N/C state when meter is de-energised

Clipsal Cortex HEMS Load Control Wiring Diagram (CX2-MB-SW)

Application: Control of Hot Water with Single element
Metering: General Light & Power
Supply: Single Phase
Rev: 2
Date: 13/06/2024
Author: Mitch Eadie

Legend

- AC Source
- HRC Fuse
- Meter
- Circuit Breaker (MCB) / RCBO
- Normally Open (NO) Contact
- Normally Closed (NC) Contact
- Current Transformer (Normal Polarity)
- Current Transformer (Reverse Polarity)
- Contactor Coil
- Heating Element
- Wiring Connection
- CT Secondary Wiring



Notes:
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Control Logic:

- Remote ON/OFF via Cortex App
- Time Schedule Example:
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- Fail safe state is N/C under no comm's for 2 hrs
- Watchdog to fallback to N/C state when meter is de-energised