



# ARA Load Control Switch

The ARA Load Control Switch is a low-cost direct load control switch for utility water heater and EV level 1 charging applications. Cloud connectivity is achieved using LTE cellular, increasing fleet connectivity and reducing downtime. The device reports availability status, increasing forecasting accuracy and supporting reduced outage durations. Cold water detection ensures customer comfort in water heater-based load management applications.

## UTILITY FEATURES

- End-point grid voltage and frequency monitoring
- Real-time power and energy data collection
- Schedule-based control for:
  - Peak-shaving
  - Load-shifting
  - Load-balancing
- Fast frequency response
- ARA Cloud monitoring platform
- White labeled for program-specific branding

## COMMUNICATION

- LTE Cellular
  - No reliance on customer WiFi
- Over-the-air firmware updates
- Device management built on AWS IoT Infrastructure
- Integration with Demand Response Management Systems (DRMS)
- Available API for 3rd parties

## TELEMETRY

- Voltage
- Current
- Instantaneous power
- Lifetime energy usage
- Heating element resistance
- Connectivity signal strength

## INSTALLATION

- < 15-minute install time
- No plumbing modifications needed

## KEY FEATURES

- Integrated relay and control
- Safeguard against cold water
- Availability reporting

FEATURE	SPECIFICATIONS
MODEL:	APHW-02A
POWER CONSUMPTION:	<3W
LOAD TYPE:	Non-inductive
ELECTRICAL INPUT:	110-240 VAC, 50/60Hz
RELAY RATING:	240VAC, 30A, >100,000 cycles*
DIMENSIONS, L X W X H - IN (MM):	5.9" x 3.7" x 2.3" (149.86 x 93.98 x 58.42)
WEIGHT - OZ (LB):	14.5 (0.90625)
CERTIFICATIONS:	UL listed: US and Canada FCC/IC certified

\*Optional: 240V, 50A relay (forthcoming)

Optional: up to 4 additional low voltage relays – 24VAC, 3A (forthcoming)

\*\*Optional relays change dimensions

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