



MODEL TS1810

AV ADVANCED POWERSTRIP+

Tier 2 APS with premium-quality surge protection that reduces active and standby energy wasted by home entertainment center electronics

OVERVIEW

The AV Advanced PowerStrip+ (AV APS+) reduces active and standby power loss in audio visual (AV) home entertainment centers by detecting when the TV and AV peripheral electronics are not being used and turns them off.

Through advanced power measurement and patented auto-threshold detection technology, the AV APS+ is compatible with all types of TVs. It features a highly-accurate sensor that detects infrared (IR) remote control activity and motion to determine whether the TV is being used. If no IR remote control activity or motion is detected within the countdown timer period, the AV APS+ powers down the TV and peripheral AV electronics plugged into the switched outlets.

KEY FEATURES

- 7 outlets:
 - 2 always-on outlets (1 transformer-spaced outlet)
 - 5 switched outlets (1 transformer-spaced outlet)
- Resettable circuit breaker
- 1,080 Joules of surge protection at 500 VPR
- Ceramic-encased, fireproof surge protection
- Auto-threshold detection with RMS power measurement
- Consumes <1W at all times
- Power switching electromechanical relays rated for 100,000 switching cycles at a full 15 amp load
- Software and hardware filtering technology filters out IR interference from non-AV equipment
- Optically-isolated RJ11 input
- LED status indication (ground, surge status, switched)
- <40dB noise filtering
- 4 ft. heavy-duty cord with angled, space-saver plug
- Supports high-level Consumer Electronic Control (CEC) commands via optional TAV-Link™ cable (sold separately) that connects from the Multi-sensor to an HDMI port on the TV

FIREPROOF SURGE PROTECTION

Traditional surge suppression products use standard Metal Oxide Varistor (MOV) components. TrickleStar's AV APS+ incorporates advanced surge protection technology with a ceramic-encased MOV that suppresses more energy and dissipates heat faster than traditional surge protection products. The ceramic casing is fireproof and therefore capable of preventing fire during abnormal surge conditions.

The AV APS+ has a best-in-class Voltage Protection Rating (VPR), superior mechanical properties, and a lifespan up to three times longer than standard surge protectors, providing you with the highest degree of protection available.

PRODUCT WARRANTY

Lifetime product warranty (10 years)

\$100,000 connected equipment warranty

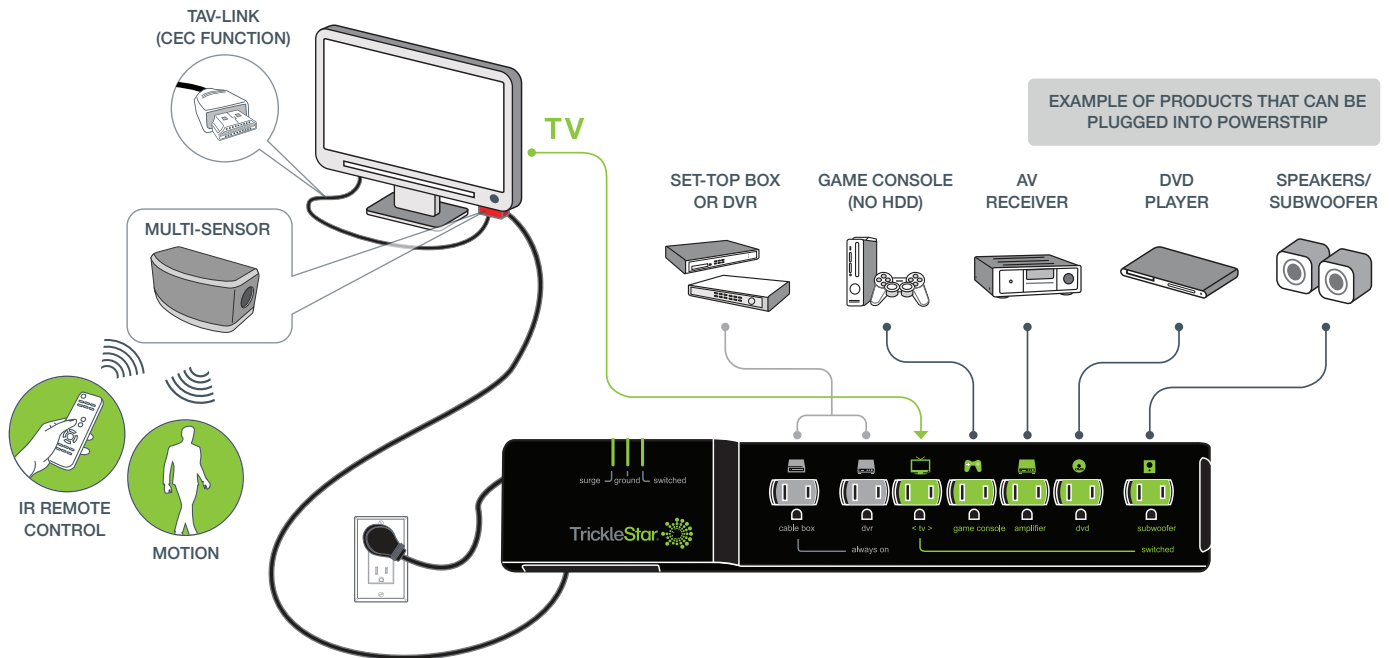
TAV-LINK™ MULTI-SENSOR

The TAV-Link Multi-sensor detects IR remote control signals and motion. It features an intelligent logic algorithm that first considers IR remote signals and then looks for both IR remote signals and motion if no IR commands are detected.

Additional features include:

- LED notification that flashes when IR activity or motion is detected
- Continuous dual-color (red/blue) flashing LED alert notification that activates ten minutes prior to shutdown
- Optional soft-chirping piezo buzzer that alerts user of a pending shutdown ten minutes and three minutes prior to shutdown
- Manual on/off button
- Supports high-level CEC commands via optional TAV-Link cable that allow "smart" TVs to safely store their data and settings prior to powering down
- TAV-Link functionality that allows gaming consoles to enter an energy-saving mode earlier and without any corruption of data

APPLICATION DIAGRAM



APS+ ELECTRICAL SPECIFICATIONS

FOR INDOOR USE

Voltage	120 VAC +/- 10%, 60 Hz
Power Rating	15 A
Surge Protection	72,000 Amps/1,080 Joules
Noise Filtering	<40 dB
Standby Power Consumption	<1 Watt
Voltage Protection Rating	500 Volts L-N 500 Volts L-G 500 Volts N-G

PHYSICAL SPECIFICATIONS

Operating Temperature	32° to 113° F
Storage Temperature	14° to 140° F
Humidity	5 to 90% N/C
IP Rating	IP20

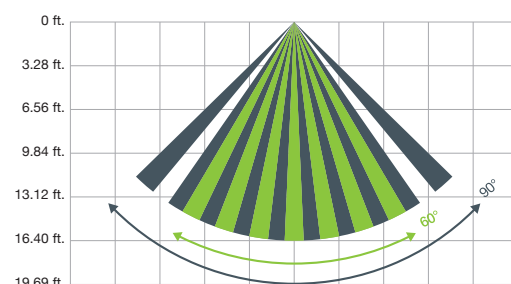
SENSOR ELECTRICAL SPECIFICATIONS

FOR INDOOR USE

Voltage	3.3 V
IR Detection Range	Up to 16.4 ft.
IR Detection Angle	60°
Cord Length	8 ft.
Movement Detection Range	Up to 16.4 ft.
Movement Detection Angle	90°

PIR & IR DETECTION PATTERN

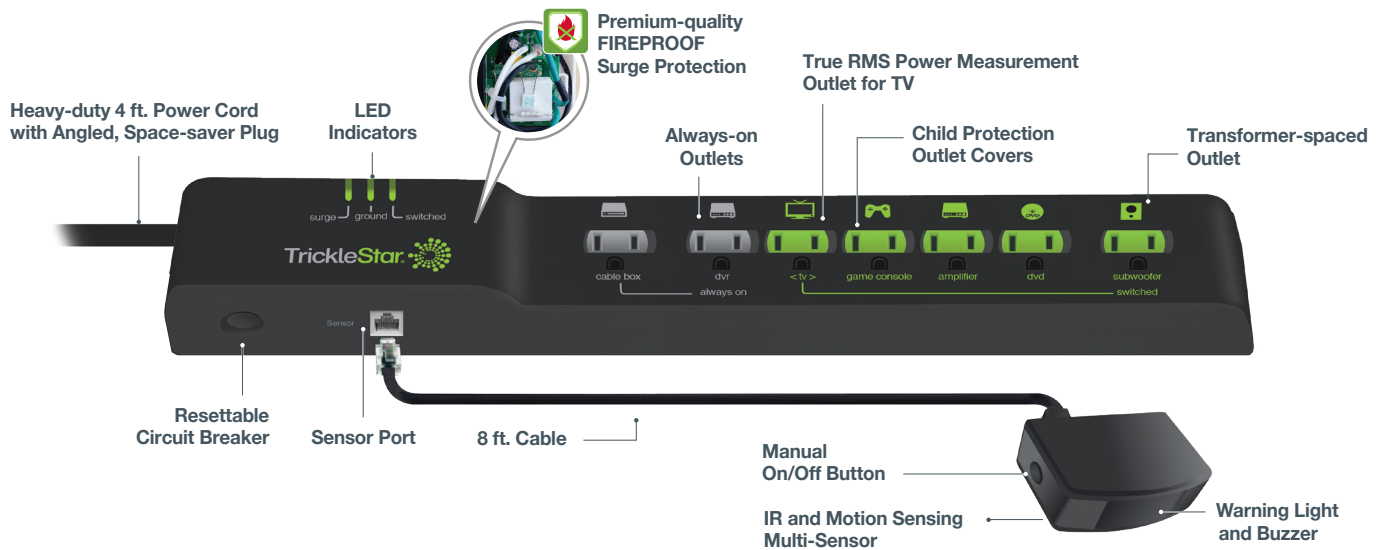
SENSOR OPTICAL VIEW PATTERN



PIR Detection
Range: 16.4 ft.
Degree: 90°

IR Detection
Range: 16.4 ft.
Degree: 60°

FEATURE DIAGRAM



APPROVALS

Conformity to product standards for safety and EMC
 2002/95/EG (RoHS), 2002/96/EC (WEEE), 1999/5/EC (RTTE)
 Solid-State Controls for Appliance, UL 244A & CSA C22.2 No. 14-10
 Relocatable Power Taps, UL 1363
 Standard for Surge Protective Devices, UL 1449

ORDER INFORMATION

TS1810 7-outlet AV Advanced PowerStrip+
 TAV-Link Multi-Sensor



Patents Pending & Patents
 9,665,073
 7,193,3350

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REV 6 – 11 Mar 2018