H-MOSS® Occupancy Sensors

Ceiling Sensors

Featuring Adaptive Technology





ATD2000CRP

All H-MOSS ceiling sensors with Adaptive Technology, contain the following standard features:

- Adaptive technology "Install and forget" operation
 Non-volatile memory Learned and adjusted
- All digital sensing technology
- Photocell for daylight harvesting and relay to interface with auxiliary systems such as HVAC (RP models)
- Non-volatile memory Learned and adjusted settings retained after power outage
- 24V DC, 33mA
- 32kHz (ATD/ATU500C & CRP 40kHz)
- · Mounting base included with sensor

Adaptive Technology, Dual (Ultrasonic and Passive Infrared)

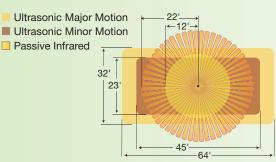
Combines the excellent minor motion detection of ultrasonic with the outstanding passive infrared (PIR) long-range major motion detection.

Coverage	Color	Catalog Numbers
2000 sq. ft. with photocell and isolated relay	White	ATD2000CRP
2000 sq. ft.	White	ATD2000C
1000 sq. ft. with photocell and isolated relay	White	ATD1000CRP
1000 sq. ft.	White	ATD1000C
500 sq. ft. with photocell and isolated relay	White	ATD500CRP
500 sq. ft.	White	ATD500C

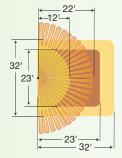
Note: All ATD ceiling sensors must use a CU series control unit.



ATD1000CRP ATD1000C ATD500CRP ATD500C



ATD2000CRP, ATD2000C



ATD1000CRP, ATD1000C



ATU2000CRP ATU2000C



ATU1000CRP ATU1000C ATU500CRP ATU500C

Adaptive Technology, Ultrasonic

Excellent minor motion detection.		
Coverage	Color	Catalog Numbers
2000 sq. ft. with photocell and isolated relay	White	ATU2000CRP
2000 sq. ft.	White	ATU2000C
1000 sq. ft. with photocell and isolated relay	White	ATU1000CRP
1000 sq. ft.	White	ATU1000C
500 sq. ft. with photocell and isolated relay	White	ATU500CRP
500 sq. ft.	White	ATU500C

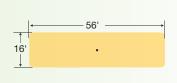
Note: All ATU ceiling sensors must use a CU series control unit.

- Ultrasonic Major MotionUltrasonic Minor Motion
 - 32'

ATU2000CRP, ATU2000C

32

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ATU1000CRP, ATU1000C

ATU2000CRP, ATU2000C Hallway Application



H-MOSS® Occupancy Sensors

Specifications and Wiring Schematics

Dual Technology and Ultrasonic Wall Switches

Adaptive Dual Technology Wall Switch AD1277 Series Wall Switches

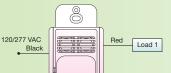
AD12// Series	
Electrical	AD1277 Series
Power Supply Load Capacity	120/277V AC, 50/60 Hz.
Incandescent	0 to 800 watts.
120V AC	0 to 600 watts.
277V AC	0 to 1200 watts.
Agency Approvals	cUL US Listed.
Physical	
Housing Lens	High impact plastic (UL-94-5V). Dual element pyrometer and 12 element cylindrical hard lens.
Dimensions	Face 2.59"H x 1.73"W, 0.37"D (from wall out).
Mounting Height	42 to 54 inches above floor.
Environmental	
Operating	32°F to 104°F (0°C to 40°C); 0% to 95% non-condensing relative humidity.
Controls	
Time Delay	Digital, adaptive 4 to 30 minutes.
Ambient Light	Adjustable ambient light override, 10 to 500 foot candles.
Front Press Switch	Auto/Off.
Sensitivity	Adaptive 0% to 100%.
Service Switch	Air gap off.
Sensing Indicator	
Passive Infrared	Red LED.

Adaptive Technology Ultrasonic and Passive Infrared Wall Switches

AP1277 and AU1277 Series Wall Switches

Electrical	AP1277 Series, AU1277 Series
Power Supply Load Capacity	120/277V AC, 50/60 Hz.
Incandescent	0 to 800 watts.
120V AC	0 to 600 watts.
277V AC	0 to 1200 watts.
Agency Approvals	cUL US Listed.
Physical	
Housing Lens	High impact plastic (UL-94-5V). Dual element pyrometer and 12 element cylindrical hard lens (AP1277 only).
Dimensions	Face 2.59"H x 1.73"W, 0.37"D (from wall out)
Mounting Height	42 to 54 inches above floor.
Environmental	
Operating	32° F to 104°F (0°C to 40°C); 0% to 95% non-condensing relative humidity.
Controls	
Time Delay	Digital, adaptive 4 to 30 minutes. 20 minutes default.
Ambient Light	Adjustable ambient light override, 10 to 500 foot candles.
Front Press Switch	Auto/Off.
Sensitivity	Adaptive 0% to 100%.
Service Switch	Air gap off.
Sensing Indicator	
Passive Infrared	Red LED (AP1277 only).
Ultrasonic	Green LED.

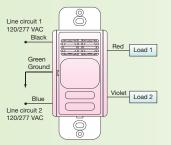
Wiring Schematic AD, AU, AP, 1277 Series Wall Switch Sensors



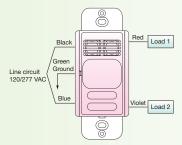
Single Circuit Wiring

Ground

Dual Circuit Sensor, Wired for Dual Circuits

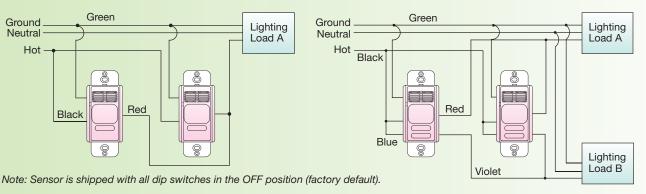


Dual Circuit Sensor, Wired for Single Circuit



Single Circuit Sensor wired as 3-Way Sensor

Dual Circuit Sensor wired as 3-Way Sensor



D-14

H-MOSS® Occupancy Sensors

Wiring Schematics

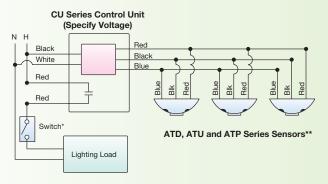
Ceiling and Wall Mount Sensors



Adaptive Dual Technology, Ultrasonic, and Passive Infrared Ceiling and Wall Mount Sensors ATD, ATU and ATP Series Ceiling and Wall Mount Sensors

Single Circuit Application:

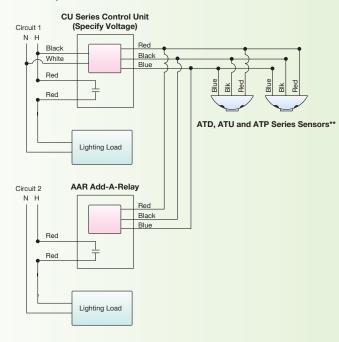
1 to 3 sensors wired to control unit with optional override off switch.



^{*} Optional Override Off Switch

Two Circuit Application:

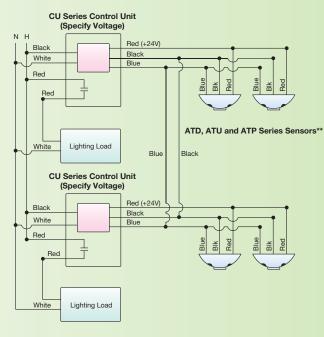
1 to 2 sensors wired to control unit and Add-A-Relay (control unit switches circuit 1, Add-A-Relay switches circuit 2).



**Note: For wiring sensors with isolated relay and photocell option (models with "RP" suffix): Photocell Option: Cap off Blue sensor wire. Connect Grey sensor wire to Blue control unit wire. Isolated Relay Option: Common-Blue/White wire, Normally Closed-Black/White wire, Normally Open-Yellow/ White wire.

Single Circuit Application:

Two control units wired in parallel to operate 4 to 6 sensors in a single zone. Maximum 3 sensors per control unit any sensor will activate lighting.



Two Circuit Application:

Two control units wired in two circuits to operate 3 to 6 sensors in a single zone. Maximum 3 sensors per control unit any sensor will activate both lighting loads.

