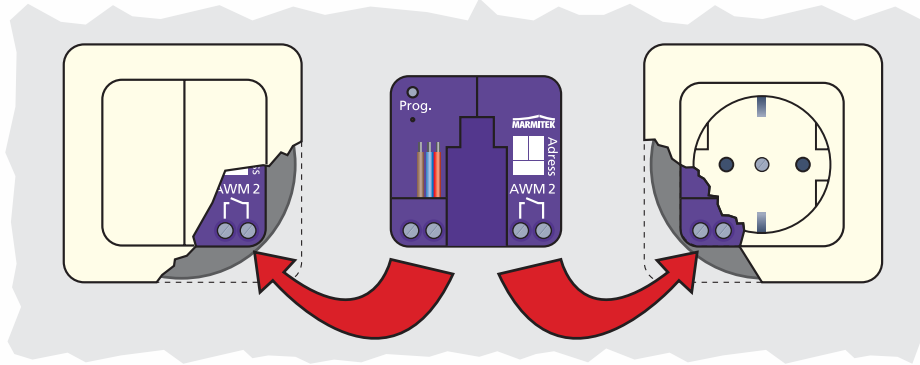


MICROMODULES

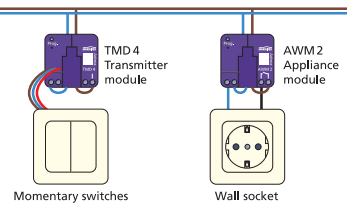
X-10 Built-in Modules for use with standard switching material



MicroModules are part of the Marmitek X-10 Home Automation program, a group of products for remote control of lighting and appliances. The system uses Marmitek X-10 signals via the mains, which makes extra wiring unnecessary. Please note: due to heat generation, apply no more than one module per flush socket / central socket!

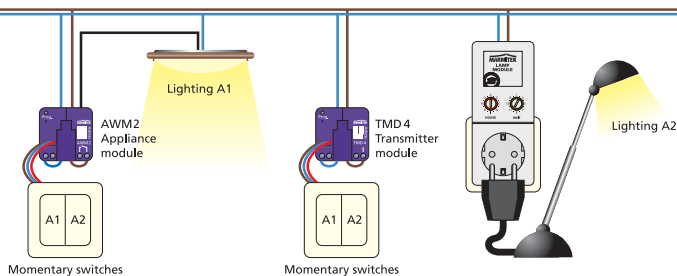
- Designed to be concealed in existing switches or wall sockets.
 - Transforms a standard wall socket into a Marmitek X-10 controlled socket.
 - For use with any model, colour or brand of switching material.
- INSTALLERS ONLY
- Make use of all the advantages of the Marmitek X-10 System, while the technology is totally invisible in your house.
 - Both two-way X-10 (AWM2, LWM1, TMA4, TMD4) and one-way X-10 implementation (AW12, LW12).

Remote control of wall sockets anywhere in the house



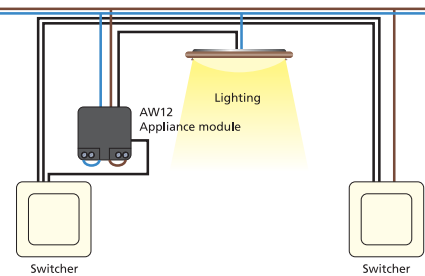
Hotel switch / Double-throw switch

When using two-way communication no extra wiring between the switches is necessary. The AWM2 and the TMD4 can also control a second X-10 address (e.g. a lamp connected to an LM12, as shown in the image).



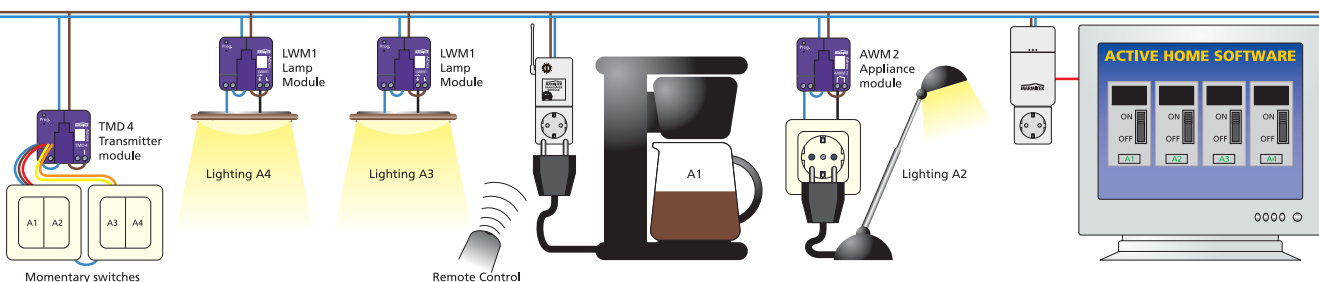
Hotel switch / Double-throw switch

Hotel switch with AW12 in Wall Module. Conventional communication between switches (via two extra wires).



Control of appliances and lighting via switches and remote control.

All modules in this diagram use the 2-way principle. The status of the modules can be checked on a computer monitor.



MICROMODULES

X-10 Built-in Modules for use with standard switching material

IMPLEMENTATIONS

Switch module with load connection, AWM2 and AW12

The Marmitek AWM2 appliance module can transmit and receive X-10 commands (two-way), the AW12 only receives (one-way).

Dim module with load connection: LWM1

The Marmitek LWM1 lamp module can transmit and receive X-10 commands (two-way). The LWM1 will transmit its dim level to other LWM1, LD11 and LW11 modules set to the same address. The LW12 only receives (one-way).

Transmitter modules, for control of other Marmitek X-10 Modules anywhere in the house

The transmitter modules TMA4 and TMD4 use two-way X-10 communication.

Product overview						
Characteristic	AWM2	LWM1	TMA4	TMD4	AW12	LW12
X-10 communication	Two-way	Two-way	Two-way	Two-way	One-way	One-way
Switching principle / Load	Relais 2300 W/230V for light bulbs and resistive (ohm) load 500 W/230V for inductive/capacitive load	Dimmer 120W/230V light bulbs 100W/230V Low voltage halogen lighting with wound voltage transformer 120W/230V Low voltage halogen lighting with electronic voltage transformer Softstart/Softdim Memory for dim level	N.A.	N.A.	Relais 3600 W/230V for resistive (ohm) load 600 W/230V for inductive/capacitive load 2000 W/230V for light bulbs and low voltage halogen lights with transformer	60W/230V to 250W/230V for incandescent lamps and halogen light
Built-in dimmer	No	Yes	N.A.	N.A.	No	Yes
X-10 commands received	On/Off All Lights On All Lights Off Extended X-10	On/Off All Lights On All Lights Off Bright/dim Extended X-10	On/Off All Lights On All Lights Off Extended X-10	On/Off All Lights On All Lights Off Extended X-10	On/Off All Lights Off All units on All units off	Address on/of Address bright/dim All lights on/off All units off Extended X-10
X-10 commands transmitted	On/Off	On/Off/Dim/Bright/Dim level	On/Off	On/Off/Dim/Bright	None	None
Load can be directly attached to module	Yes	Yes	No	No	Yes	Yes
Silent relais	Yes	N.A.	N.A.	N.A.	No	N.A.
Use in 3 phase installation	CAT3000 necessary	CAT3000 necessary	CAT3000 necessary	CAT3000 necessary	FD10 (3x) or CAT3000 necessary	FD10 (3x) or CAT3000 necessary
Number of X-10 input/output	2	1	4	4	1	1
Attachable switches	Switches or momentary switches	Momentary switches	Switches	Momentary switches	Switches or momentary switches	Momentary switches
Input switches to	Neutral	Neutral	Neutral	Neutral	Phase 230V	Phase 230V
Dimensions (mm)	46x46x16	46x46x16	46x46x16	46x46x16	46x46x17	46x46x18
LED display power / programming mode	Yes	Yes	Yes	Yes	No	No
Power	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
Power consumption	< 30 mA	< 30 mA	< 30 mA	< 30 mA	< 20 mA	< 6 mA
Description	Appliance Wall Module for 2 adresses	Lamp Wall Module for 1 adress	Transmitter Module Appliances for 4 addresses	Transmitter Module Dimmers for 4 addresses	Appliance Wall Module for 1 address	Dimming Wall Module for 1 address
Art. No.	09300	09534	09301	09302	09463	09611