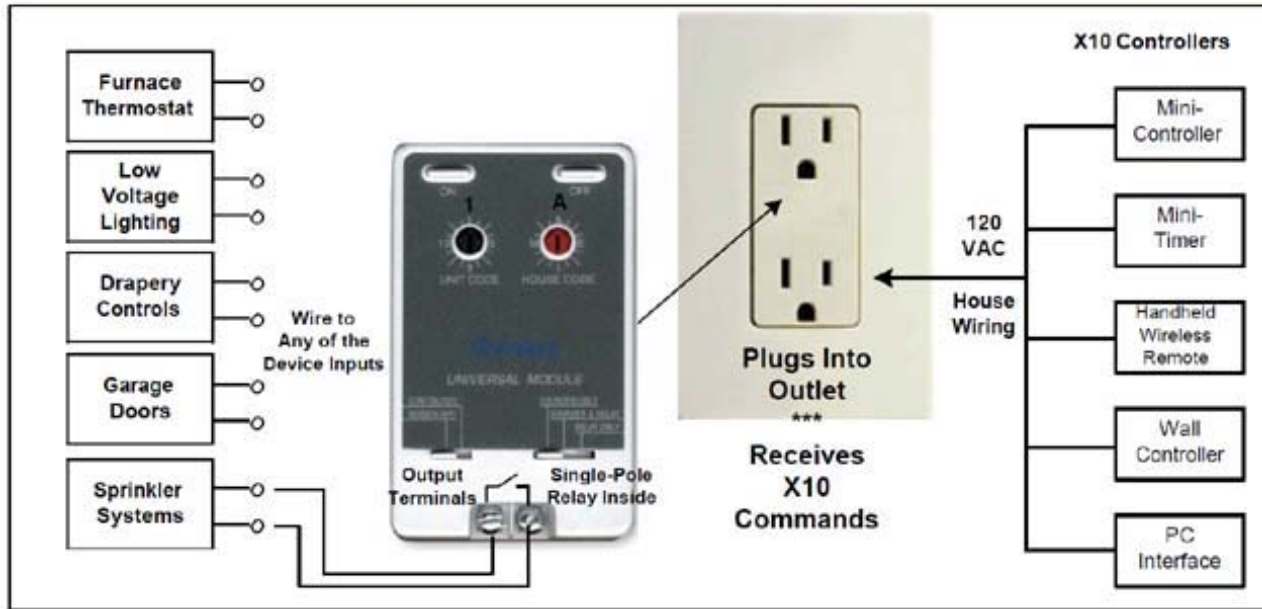


# Universal Module - Receiver

# UM506



**Description:** The UM506 Universal Module RECEIVES X10 ON/OFF Signals and it Closes/Opens its internal Single-pole relay switch. The UM506 is used to operate furnaces via their low-voltage thermostat wires, low voltage lighting, drapery controls, garage door openers, sprinkler systems, etc. The UM506's internal switch relay is a path interrupter for devices which are not powered above 24VDC (5A) or 30VAC (3.3A).

**Specific Requirements:** 120VAC Power  
Max 24VDC / 5Amps or 30VAC / 100VA (3.3A) through the Output Terminals

**Optional / Supplementary Devices & Modules:**  
Any X10 Controller can send a Command to operate the UM506

### X10 Protocol:

**House Code Dial** - Letters A-P **Unit Number Dial** - Numbers 1-16

Each X10 Receiver Module is set to a unique Unit Number or to an identical Unit Number as desired.

Each X10 Controller operating a specific set of Receiver Modules must be set to the same House Code as the Receivers they are controlling.

### Electrical Protocol:

Nearly all residential homes are wired SPLIT-PHASE. Each 120V Phase is NOT directly connected with the other 120V phase. If after installation, an X10 Receiver does not respond to a remote Controller, then check to ensure that the breaker serving the X10 Receiver is on the same phase as the Controller. If not, the breaker can be changed to the opposite phase. An alternative solution is recommended, to install a Phase Coupler for improving remote communications throughout the home.

### Installation:

Set Operation Modes:

**Momentary** - When an X10 "ON" Command is received the Relay closes, approximately 1.5 seconds, then releases.

**Continuous** - When an X10 "ON" Command is received the Relay closes and will remain closed until an X10 "OFF" Command is received. The Relay will not change its status due to a power loss.

**Sounder Only** - a SOUNDER will go off. No Relay switching will occur.

**Sounder & Relay** - a SOUNDER will go off and Relay switching will occur.

**Relay Only** - only Relay switching will occur.

Plug the UM506 into a 120VAC Wall Outlet.

Connect the UM506, with two wires, to the terminals of the low-voltage device being controlled.

Testing the Universal Module

**Press ON** - Module activated according to selected modes.

**Press OFF** - Module is switched OFF if in the Continuous mode.

### SPECIAL OPERATIONS

- The UM506 Output Terminals can be directly wired to the PF284 PowerFlash Module's Input Terminals. This allows an X10 ON/OFF Command to be sent to a detached facility, (which is on separate AC power), via 2 Low Voltage wires, carrying little power on them.
  - The UM506 receives an X10 ON Command, closes its Relay.
  - The PF284 senses the contact closure and sends an X10 ON Command onto the separate power system.
  - The two Low Voltage wires can be replaced with a Wireless RF Transmitter/Receiver setup (non-X10) to pass the contact closure/X10 Command over long distances.
- The PF284 senses a contact closure and sends an X10 ON Command.
  - The UM506 (at a remote location), on the same power system, receives the X10 ON Command and emits a remote contact closure (great for a detached garage security zone reporting a closure to an alarm panel).

**120 DAY LIMITED WARRANTY** x10.com (X10), a division of Authinx Inc., warrants this product to be free from defective material and workmanship for a period of 120 days from the original date of purchase at retail. X10 agrees to repair or replace, at its sole discretion, a defective product if returned to X10 within the warranty period and with proof of purchase. If service is required under this warranty:

Call 1-888-384-0969, visit [www.x10p.com](http://www.x10p.com), or email [support@x10.com](mailto:support@x10.com)