

APPLICATIONS

- ❖ The WAM2/4 allows HVAC contractors to re-use the existing 2-wire thermostat cable on air conditioning and furnace retrofits where installing a 4-wire cable would be required.

FEATURES

- ❖ Easily mounts in furnace control box
- ❖ Output LED indication for Fan, Htg, & Clg

DESCRIPTION

The WAM2/4 re-uses the existing 2-wire cable instead of needing a new 4-wire cable for Htg/Clg Retrofits. It mounts in the furnace control box, gets its power from the existing 24V AC transformer and puts out “heat”, “cool”, and “fan” relay contact closures simultaneously with the heating/cooling thermostat operation. The new Htg/Clg thermostat should be the battery powered electronic type. The conventional switch action thermostat has heating and cooling anticipators which will have their action bypassed, which could cause wide temperature swings.

OPERATION

The WAM2/4 uses a signal combining network with four wires to connect to the “heat (W)”, “cool (Y)”, and “fan (G) terminals on the new thermostat. It combines the “contact” closure signals from the thermostat onto the existing two wires (one side of the 24V AC transformer and the WAM2/4 signal input wire). The WAM2/4 module “reads” these combined signals and operates internal relays to provide contact closures for the “heat”, “cool”, and “fan” 24V AC relay loads. An “open” in the 2 wire cable prevents the WAM2/4 from turning any outputs on. A “short” in the 2 wire cable causes the cooling and fan outputs to stay on continuously.

If a conventional switching type thermostat is used, (not recommended), the cooling anticipator resistor must be “clipped” out of the thermostat circuit because it will cause erroneous signals and faulty operation.

Warning: Connecting 24V AC to the new thermostat or the WAM2/4 module on the signal input should be avoided as it could damage the WAM2/4 module!



SPECIFICATIONS

SIZE:	3.20"L x 1.20"W x 0.85" H
MOUNTING:	Double stick tape or 1" #6 sheet metal screw.
POWER:	24V AC ± 15%, 50/60Hz .5VA
INPUT SIGNAL:	DC Voltage from 4 wire combining network.
OUTPUT SIGNALS:	Switched 24VAC for: Fan, heat, & cooling. Relay contacts rated for: 1 Amp @120VAC
AMBIENT TEMP:	0-50°C

ORDERING INFORMATION

WAM2/4 - Wire Adder Module 2 / 4

PHYSICAL CONFIGURATION



