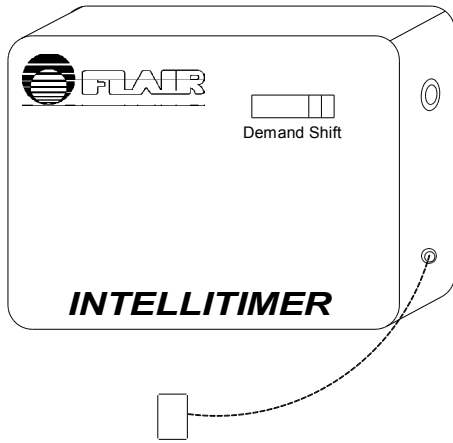


# INTELLITIMER

## IT2 Series

Fuzzy Logic Water Heater Controller

Learns water heater usage patterns and duplicates settings in future periods providing hot water when needed and significant energy savings during periods of lesser or non-use.



**IT2 SERIES**

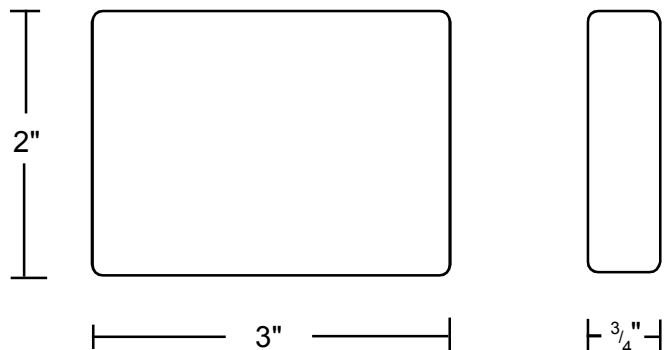
### BENEFITS & SPECIAL FEATURES

- Finally, an inexpensive, reliable set back device for water heaters!
- Completely automatic - nothing to set or maintain.
- Failsafe mode returns heater to normal operation in case of device failure.
- Automatically notes periods of hot water use and repeats those patterns in the future. Continues to learn and adjust.
- Remembers patterns of use for each 10 minute period over the last 7 days.
- Not fooled by sporadic or intermittent use.
- Instantly resets during unanticipated loads but does not incorporate that requirement into the pattern until repeated.
- Reduces the chances of accidental scalding by reducing temperature during off-peak periods.
- Reduces wasted energy.
- Models available for electric, gas (standard pilot and electronic ignition) and oil fired hot water commercial and residential heaters.
- "Demand shift" mode. Can be set to shift demand to non-peak hours (electric water heater model only).
- Sensor is strap-mounted to supply piping. No pipe cutting necessary. Service is not interrupted.
- Mounting hardware and sensor included.

### DESCRIPTION

Working in conjunction with the water heater's standard aquastat, the Intellitimer will automatically set back the water heater temperature during periods of lesser or non-use. It will automatically recover to supply hot water at the proper temperature and at the proper time for the next anticipated use. A demand shift feature (applies only to electric heater model) will tend to heat water during off-peak periods, if possible, in order to reduce electrical costs.

### DIMENSIONS



## SPECIFICATIONS

Memory ..... EPROM, no battery required to retain program

Relay contacts ..... Normally closed SPST contact, fails in normal operation mode

Contact rating ..... 10 amps resistive load

Case (material) ..... High impact flame retardant ABS, self-extinguishing

Case (color) ..... Matte grey

Demand shift ..... shifts heating to non-peak (night time) hours

### Ambient temp.

Min. .... -10° F (-23° C)

Max. .... 140° F (77.8° C)

### Ambient humidity

Min. .... 5% RH

Max. .... 95% RH

### Mounting hardware

Case: ..... double face tape

..... 4 mounting screws

Sensor: ..... strap on

### Dimensions

Case: ..... 3" x 2" (5.6 x 5 mm)

Weight: ..... 6 oz. (16.9 g.)

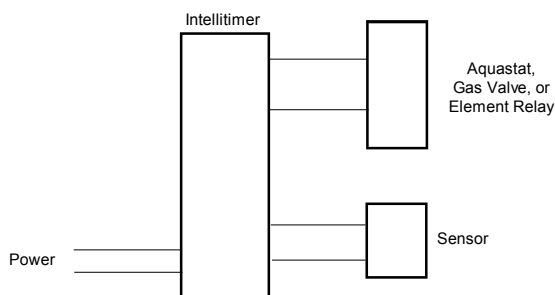
## WARRANTY

All Intellitimers are warranted against defects in materials and workmanship for 30 months from date of manufacture. Some restrictions apply. See complete warranty for details.

## APPROVALS



## WIRING DIAGRAM



## APPLICATIONS

Models are available to adapt to existing millivolt and electronic ignition gas water heaters, line voltage oil-fired water heaters and electric water heaters in both residential and commercial sizes.

- Gas
- Oil
- Electric
- Residential
- Commercial
- Industrial
- Institutional

Model	IT210	IT212	IT224	IT236
Application	Gas	Gas	Oil	Electric
Device Power	24V*	24V	115V	230V
Heater Power	millivolt	24V	115V	230V

\* Supplied by 115/24 volt U.L. approved plug in transformer.

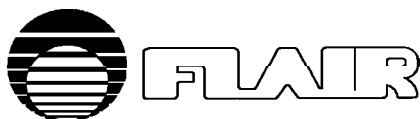
## INSTALLATION

Intellitimer's are available as original equipment on select water heaters or can be added as a retrofit item on many heaters by a qualified installer. Installation is simple. The device is mounted to the side of the heater using either double-faced tape or four mounting screws (both are provided). A sensor is strap mounted to the outlet (supply) tubing. The sensor detects the demand for hot water. A 3-foot cable connects the sensor to the unit. The unit is wired in series between the aquastat and the burner (gas or oil) or element relay (electric).

## REFERENCES

For More Information On:	See:
Wiring, jumper, settings and applications	Instruction sheet
Other Intellitimers	This section
Controlstat programmable controllers	This section
Set Point Controllers	Set Point Controllers section
Zone Actuators	Star Actuator section
Zone Valves	Star Valve section
Wiring Panels	Control Panels section
Warranty & pricing	Pricing & Terms section

Flair pursues a policy of constant improvement. For this reason, all specifications are subject to change without notice.



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