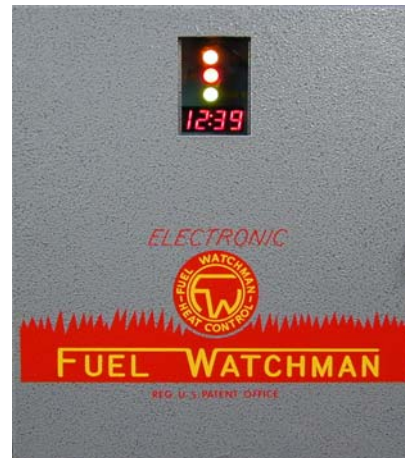


WATCHES THE  
WEATHER  
24 HOURS  
A DAY

## CUT YOUR FUEL BILLS

*Approved  
for use in  
New York City  
under  
Calendar #44228*



**NEW  
&  
Improved  
AFD Series  
Controller**

*"It's just in the box"*

With a

# FUEL WATCHMAN

*DIGITAL*

## HEATING CONTROLLER

# WHAT IS A **DIGITAL FUEL WATCHMAN** ?

The completely automatic *Digital FUEL WATCHMAN* keeps an unflinching weather watch on your fuel consumption *around the clock!* It is super-sensitive to even the slightest change in weather and relays this change immediately to your heating system. Tried and tested for over 60 years under varying conditions, in both *horizontal and vertical* building layouts, the *Digital FUEL WATCHMAN* is the ultimate in outside heat controls!

A properly engineered control system should enable you to save on fuel and maintenance costs, while giving greater heating efficiency.

## This is what the **Digital FUEL WATCHMAN** does:

**CUTS FUEL BILLS TO OWNERS' REQUIREMENTS:** Savings are made possible by the *completely automatic response* to favorable weather changes that allow for smaller heat loads. The *Digital FUEL WATCHMAN* gives you the *instant action and consistency of operation* that takes full advantage of these savings!

**SAVES MANPOWER:** Rugged, compact construction assures *long life ... Tamper-proof operation continuous performance.* Increases efficiency by **ALLOWING YOUR MAINTENANCE CREW MORE TIME TO TEND TO REPAIRS AND IMPROVEMENTS**, by eliminating the necessity of adjusting your heating system to sudden changes in outside temperature. The *outdoor element of Digital FUEL WATCHMAN* is entirely weatherproof!

**GIVES GREATER HEATING EFFICIENCY:** Heat-start and heat-stop can be scheduled for any hour of day or night with 24 hour 7 Day scheduling as desired ... with *certainty of performance.* This assures the maximum of savings in fuel consumed and manpower needed!

**FITS YOUR OWN SPECIAL HEATING PROBLEM:** The *Digital FUEL WATCHMAN* is available in *different models*, for varying conditions. It can be adapted (in combination with other *FUEL WATCHMAN* controls) to suit any special heating problem you might have.



This is what's inside the box



**Polarstat (Outside Sensor)**

- 1. TIME / PROGRAM DISPLAY:** This Display shows the current time. The display also shows the program schedule. The controller can have up to 4 day/night cycles per day (total of 8 events) and each day can be programmed differently providing a total of 56 events for the week. The program scheduling is in increments of 15 minutes.
- 2. NIGHT HEAT ADJUSTMENT:** This selector can be set to any outdoor temperature indicated from 15°F to 45°F. This means that night heat will not go on unless the outdoor temperature drops below your selected setting. Heat in building will be at a reduced amount. It can also be set for OFF to provide NO night heat if desired.
- 3. DAY HEAT SELECTOR:** This regulates the schedule of day heating. The Digital FUEL WATCHMAN can be set to begin operation from 50°F to 65°F outdoor temperature. This means that the control calls for heat when the outdoor temperature is at or below the selected setting and will not permit heat at temperature above this setting.
- 4. HEAT ADJUSTMENT:** This dial controls the amount of heat you want in the building by controlling the off period. This will provide as much as two hours off period (in mild weather), and by the correct program scheduling, the off period can be extended to a greater time. This dial also synchronizes the heating system with the outside Polarstat and thus automatically maintains an even comfort level through changing outside weather conditions.
- 5. CONTROL FUNCTION SWITCHES:**
  - a. WINTER/SUMMER SWITCH** - Selects the mode of operation, either Automatic (Winter), or Heat Off (Summer).
  - b. MANUAL** - When this switch is placed in the Manual position, the FUEL WATCHMAN heat control is completely bypassed and the heating plant will run continuously. When in the Automatic position the control will operate automatically.
  - c. MORNING PICK UP** - With the Morning Pick Up switch placed in the ON position, it will provide more heat and shorter off periods according to outdoor weather conditions during the start up period (5 AM – 8:30 AM).
- 6. SIGNAL INDICATORS:** These signal lights are long life low power L.E.D. devices which indicate the status of operation of the heating system.
  - a. YELLOW** - Indicates control is ON (Winter) and there is power to the panel.
  - b. RED** - Indicates that control is calling for heat.
  - c. GREEN** - Indicates the Heat is Established.
- 7. STATUS INDICATORS (Small RED L.E.D's)** Indicates the current operating status of the Digital Heating Controller.
- 8. PROGRAMMING BUTTONS:** 12 Quick & easy to use pushbuttons enables effortless time setting and program schedules.
- 9. CALIBRATION ADJUSTMENT:** This enables the FUEL WATCHMAN to be calibrated without the removal of any wires and without the attaching of special calibrating instruments.
- 10. PRESS ONE CYCLE BUTTON:** This button allows the operator to give one cycle of heat regardless of outside temperature. This is mainly used to check boiler operation and to prevent the operator from leaving the manual switch on.

## For Every Heating System

# 100 % AUTOMATIC !

We stress this feature so strongly because NOT EVERY "HEATING CONTROL" IS completely AUTOMATIC and completely free from any dependence on manual attention. The Digital FUEL WATCHMAN never sleeps and it gives you that sizeable savings of fuel that can result from slight rises in temperature. These rises might not be noticed by a maintenance person, or only noticed after hours of wasted fuel consumption. Economical, easy to install, and razor sharp in its actions, the Digital FUEL WATCHMAN can SAVE ITS COST in a surprisingly short period of time!

### Why is the Fuel Watchman Different?

The Polarstat (outdoor sensor) is not just a thermostat. It's specifically designed to simulate your building and computes the heat loss determined by the outside weather conditions including wind chill factor. The Fuel Watchman Heating Control has an adjustment to fine-tune the Polarstat to your particular Building's heat loss. This can easily be done by increasing or decreasing the Heat Adjustment Knob located on the Fuel Watchman Control Panel.

... Compare these

**DIGITAL  
FUEL WATCHMAN**

*Features...*

- **100 % AUTOMATIC operation, 24 hours a day 7 days a week!**
- **PRE-PROGRAMMED to meet New York City's Heating Code or customize your own schedule to meet your buildings specific heating needs.**
- **Reliable Microcontroller Technology.**
- **AUTOMATIC DAYLIGHT SAVINGS built in. No more spring and fall time changes required.**
- **100 % BATTERY BACKUP maintains time and programming up to 1 Year.**
- **RUN LIMIT PROTECTION. If your boiler system runs too long due to a system problem, the Fuel Watchman will detect this and shut down the boiler until the next heating cycle saving fuel. It will also provide display indication of a problem.**
- **No inside thermostat needed! (open windows do not affect control operation)**
- **REACTS TO OUTDOOR WEATHER CHANGES INCLUDING temperature, humidity, wind chill and solar radiation**
- **CUTS FUEL BILLS whether heating by oil, gas or purchased steam.**
- **Original control cost repaid usually with first year's savings.**
- **JOB TESTED CONTROLS FOR OVER 60 YEARS in apartment houses, office buildings, hotels, factories, hospitals etc.**
- **Simple plug-in-panel.**
- **Replacement panels are 100 % BACKWARDS compatible. No re-wiring or sensor changes required.**
- **Factory calibrated. No periodic calibration required.**
- **Simple to operate and 100% AUTOMATIC.**
- **Cabinet lockable using standard padlock. (Lock not included)**

**Authorized Distributor:**

**JOB TESTED**

**FOR OVER 60 YEARS**

The Fuel Watchman is by no means a "new gadget". It is a control, tried and tested for over 60 years, with excellent results, in thousands of Apartment Houses, Commercial Buildings, Factories, Government Installations, Institutions and other types of structures. It has been adopted and approved by large management groups as well as individual owners. An impressive list of users will be supplied upon request.

**SMALL INVESTMENT**

The original cost of the Fuel Watchman surprisingly modest. After installation, there is no further cost in year after year of 100% AUTOMATIC, 100% EFFICIENT OPERATION. In so many cases with proper setup and system design, the cost actually is repaid by the first year's savings!

**QUICKLY INSTALLED**

The FUEL WATCHMAN can be hooked up to your heating system in a short time without any interruption in your heating service.



Reg. U.S. Patent Office

**364 Jackson Avenue  
Bronx, New York 10454-1698  
Phone 718-665-6100**

**1-Year Guarantee**

ALL F.W. products are guaranteed to be free from defects of workmanship or material and to function satisfactorily when properly installed, operated, programmed and maintained in accordance to F.W. instructions, for a period of ONE (1) year from date of purchase. F.W. will repair or, at its option, replace without charge, any F.W. product found defective upon examination at the factory if returned within the guarantee period, transportation charges prepaid. Return shipment will be made transportation charges prepaid. This guarantee does not apply if the product has been tampered with or altered in any way after leaving the factory or programming changes and/or programming errors. F.W. assumes no liability for resultant damages of any kind arising from the use or misuse of its products.

Fuel Watchman, N.Y.