

**"Series Ten"  
Thermostat**

**DIRECTION  
BOOK**

**MODELS**

4010, 4710, 5510 and 7710

*A Control Especially Designed for  
Oil Burner Use*

Separate Directions packed with each "Series 10"  
Boiler Control, Valve and Junior 10 Relay

MANUFACTURED BY

**MINNEAPOLIS HONEYWELL  
REGULATOR CO.  
MINNEAPOLIS, MINN.**

**IMPORTANT!**

**KEEP THIS BOOK FOR  
FUTURE REFERENCE**

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**CAUTION**

"SERIES 10" MINNEAPOLIS CONTROL UNITS are especially constructed to control Oil Burners only and are built in accordance with the National Board of Fire Underwriters specifications.

Never attempt to use a "SERIES 10" UNIT in conjunction with a STANDARD MODEL MINNEAPOLIS THERMOSTAT, BOILER CONTROL or MOTOR, or a Unit of any other manufacture. "SERIES 10" Thermostats, Boiler Controls and Relays will give satisfaction if installed and cared for in accordance with instructions contained in this booklet.

*Burrows*

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FILE NO. 77-0111

# Technical Data



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# Minneapolis - Honeywell Regulator Company

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## CONTROL VALVE SELECTION

FILE NO. 77-5101

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*engineering manual of*

# **AUTOMATIC CONTROL**

**FOR COMMERCIAL AIR CONDITIONING:**

**HEATING • COOLING • VENTILATING**

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# Automatic Controls

FOR COMMERCIAL  
HEATING • VENTILATING  
AIR CONDITIONING

ELECTRONIC, ELECTRIC and PNEUMATIC CONTROLS

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HONEYWELL INC.  
Minneapolis, Minnesota 55408 — Toronto 17, Ontario

TECHNICAL DATA

# PNEUMATIC CONTROL FUNDAMENTALS

File No. 77-1013

This part available separately under .....

Part C, Section 1, of Engineering Manual  
of Automatic Control (77-1000)

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# ENERGY CONSERVATION WITH COMFORT

THE HONEYWELL ENERGY CONSERVER'S  
MANUAL AND WORKBOOK



1979

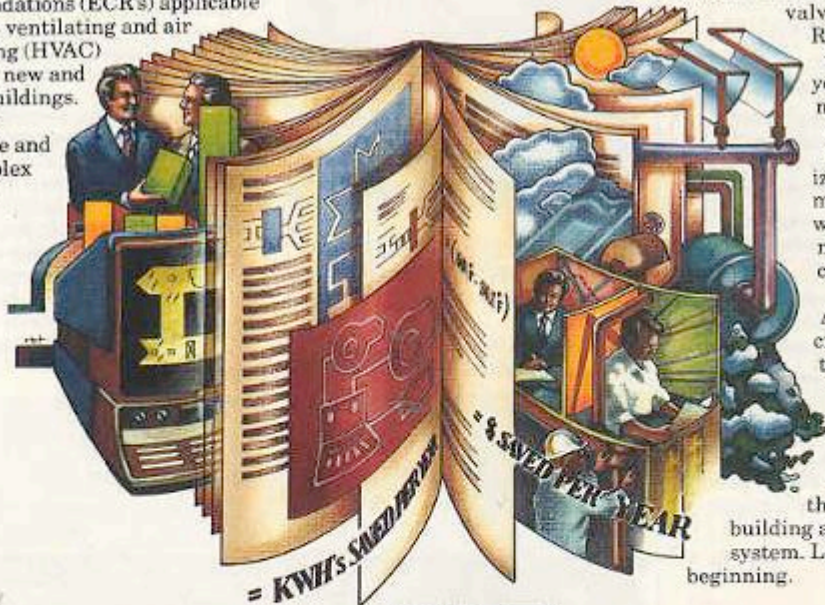


People who pay for energy are well aware of rising costs and uncertain supplies. Most of us have done something in our businesses to conserve energy. Perhaps thermostats have been adjusted or lighting levels have been lowered. Unfortunately, though these steps result in savings, our fuel bills don't stabilize. Energy costs keep leaping ahead. And if the rising cost of energy isn't enough, there's a Catch 22.

### THE CATCH 22 IN ENERGY CONSERVATION

How do you achieve energy conservation and keep building occupants happy at the same time? How can you manage conservation *with* comfort?

Three years ago Honeywell answered these questions with *Energy Conservation with Comfort*, an energy manager's handbook on conservation in non-residential buildings. The manual provided Energy Conservation Recommendations (ECR's) applicable to heating, ventilating and air conditioning (HVAC) systems in new and existing buildings. We offered both simple and more complex solutions.



# AN INTRODUCTION TO ENERGY CONSERVATION WITH COMFORT

### INTRODUCING...

After three years there are even more questions. Now, we would like to introduce you to the new *Energy Conservation with Comfort*, Second Edition. The problem is still the same—energy conservation *with* comfort, but our approach has broadened. First, we found that as new control products and improvements become available, they give rise to new Energy Conservation Recommendations. And since energy conservation doesn't end with control systems, we've investigated other ways to save as well. So, with this second edition we give you not only basic control ideas, old and new, but also some ideas on how to use solar energy, thermal storage, power factor correction, and computerized energy management techniques. And we've kept all the good ideas many of you found so useful in the first edition.

Energy conservation begins with the basics. Start with thermostats, valves and dampers.

Renovate and modernize the parts before you explore what automation can do for the whole. To make the best use of computerized energy management, you must start with efficient, well maintained, operating controls.

A constant flow of creativity and imagination must be directed to the task of energy management. Use your imagination; there are as many areas to explore as there are rooms in your building and controls in your system. Let's begin at the beginning.

beginning.

## 2ND EDITION



**Honeywell**

**87**

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Delta 1000  
building management system

**making  
control of  
your  
building  
pay off**

A colorful illustration depicting a building management system in use. It shows a multi-story building with a control room on the ground floor where a man is sitting at a desk with a computer terminal. Another man is standing nearby. On the upper floors, there are scenes of people working at desks, one of whom is wearing a hard hat. The scene is set against a background of a cityscape with clouds and a sun.

1979

# control with a payoff

Tight management control—that's the key to successful building operations. The more effective that control, the more you can fine-tune your building so it runs comfortably, safely, smoothly. And, the more it will contribute to the health of your bottom line, because you'll be able to control variable operating costs better.

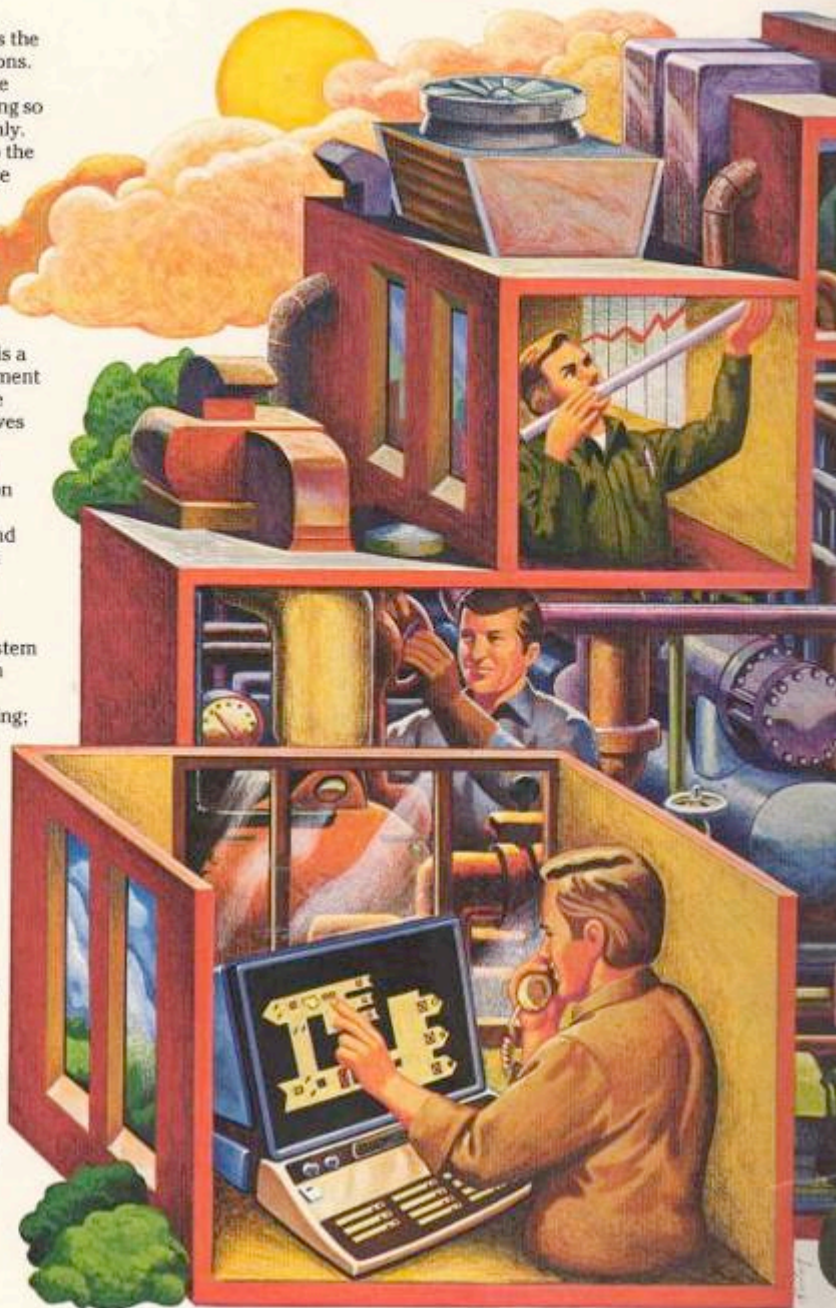
It *really* is good business to run a fine-tuned building. That's why Honeywell developed the Delta 1000 system.

The Honeywell Delta 1000 system is a computer-based building management system. And effective control is the single most important benefit it gives you. Delta helps you control and manage key functions like energy consumption, equipment operation and maintenance, fire protection, security, manpower utilization, and most importantly, operating costs.

## total centralized control

Delta ties together vital building equipment into a single master system for total centralized control. Each element in the system—boilers; chillers; pumps; air handlers; lighting; fire, smoke and security detectors; card readers; whatever—is under the continuous, watchful eye of the central Delta computer. Every second the computer receives and analyzes data from hundreds or thousands of points around your facility. Every second, the computer makes command decisions to optimize equipment performance. Instantly, the computer reports emergency and alarm conditions.

Operator terminals, located conveniently around the building, help your staff control daily operations. These devices provide the means for remote control, information retrieval and automatic alarm reporting. Essentially, a single person can watch over and run your entire building or building complex.



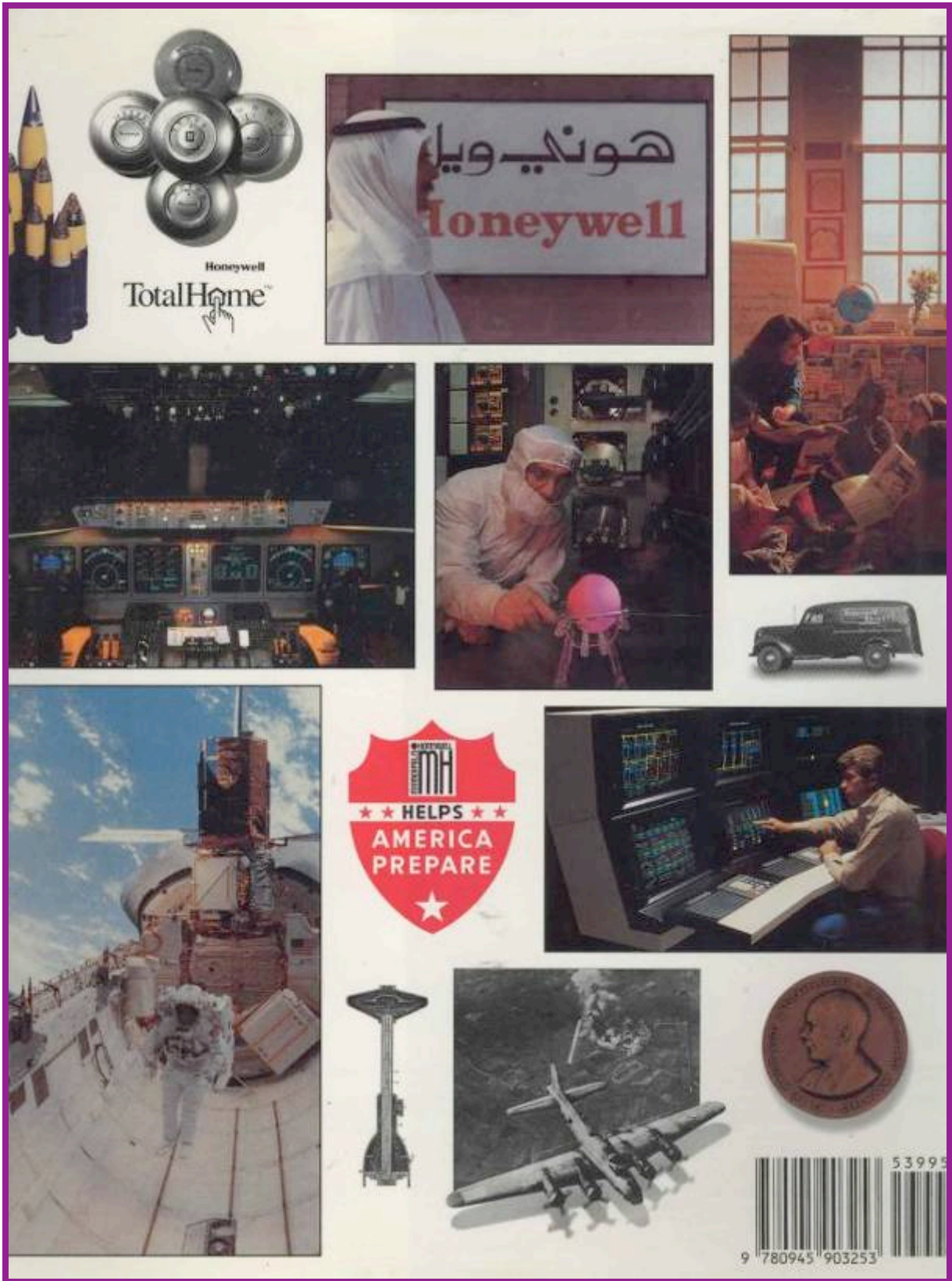


The Legend Of  
**HONEYWELL**



**Jeffrey L. Rodengen**

*1995 History of 208 pages*



1995 History back cover