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JOHNSON SERVICE COMPANY
MILWAUKEE, WISCONSIN and PRINCIPAL CITIES



MANUFACTURERS - ENGINEERS - CONTRACTORS
AUTOMATIC TEMPERATURE & HUMIDITY CONTROL

Johnson Dual Room Thermostat With Pushbuttons For Manual Changeover Proportional Action

The Johnson T-465 thermostat, Fig. 1, is a Dual proportional action room thermostat equipped with a special switching device for manually operated changeover. Like other Dual room thermostats, this instrument utilizes a dual pressure air supply system. It maintains the temperature at a particular value during the daytime and at a lower economy temperature during the night or unoccupied periods. Automatic switchover from one temperature setting to the other is accomplished by changing the supply air pressure.

This thermostat is similar in operation to the T-460 Dual thermostat and is generally used for controlling unit ventilators. Either thermostat can be used to control the classroom at a "day" and a "night" temperature, but with the T-465 thermostat it is also possible to manually restore a single unit ventilator or classroom to the complete day cycle of operation while the rest of the system is on night operation. Two pushbuttons on the thermostat cover, Fig. 2, are used to accomplish this special switchover.

R-300 Relay T-460 Series

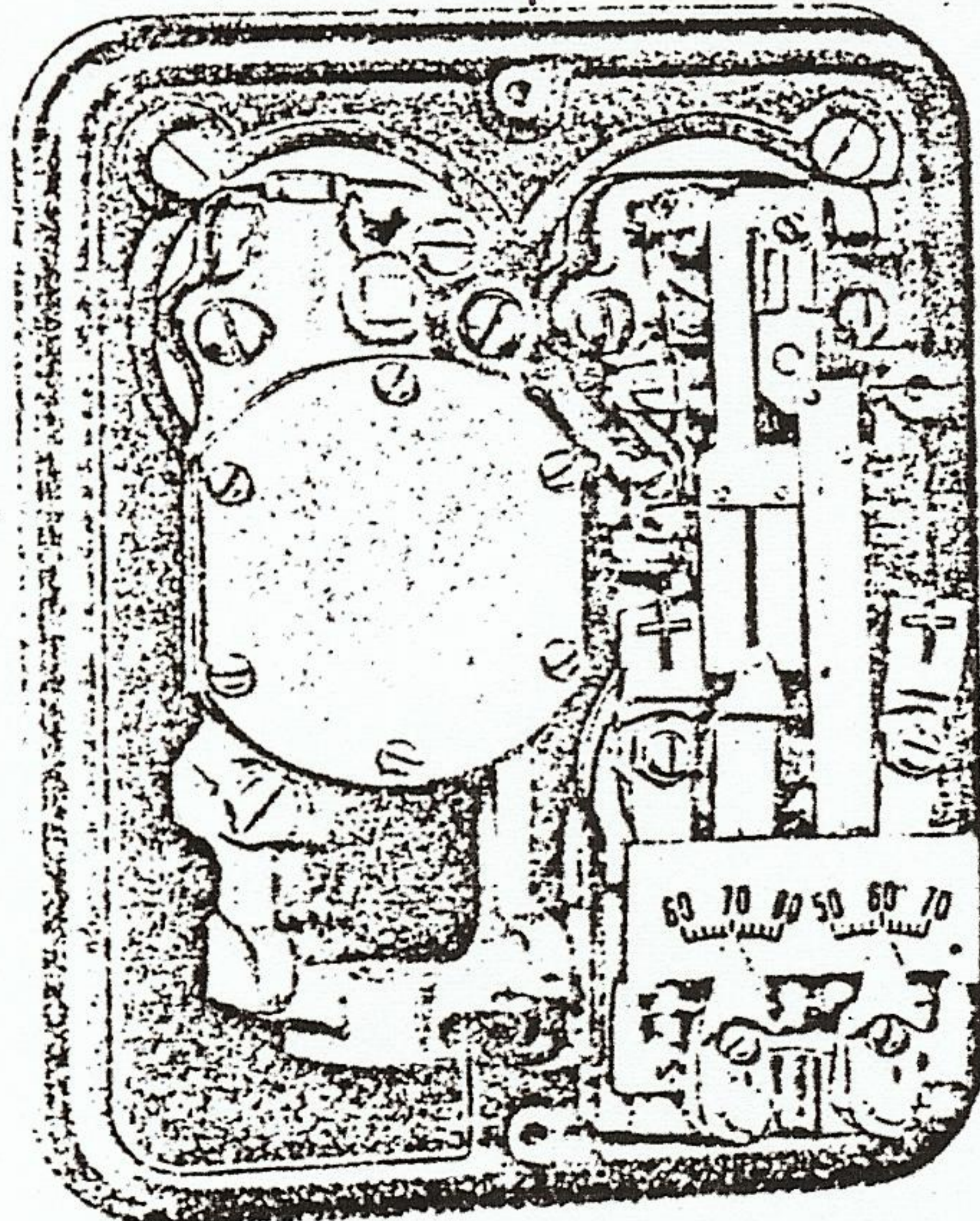


FIG. 1: T-465 DUAL ROOM THERMOSTAT
WITH COVER REMOVED

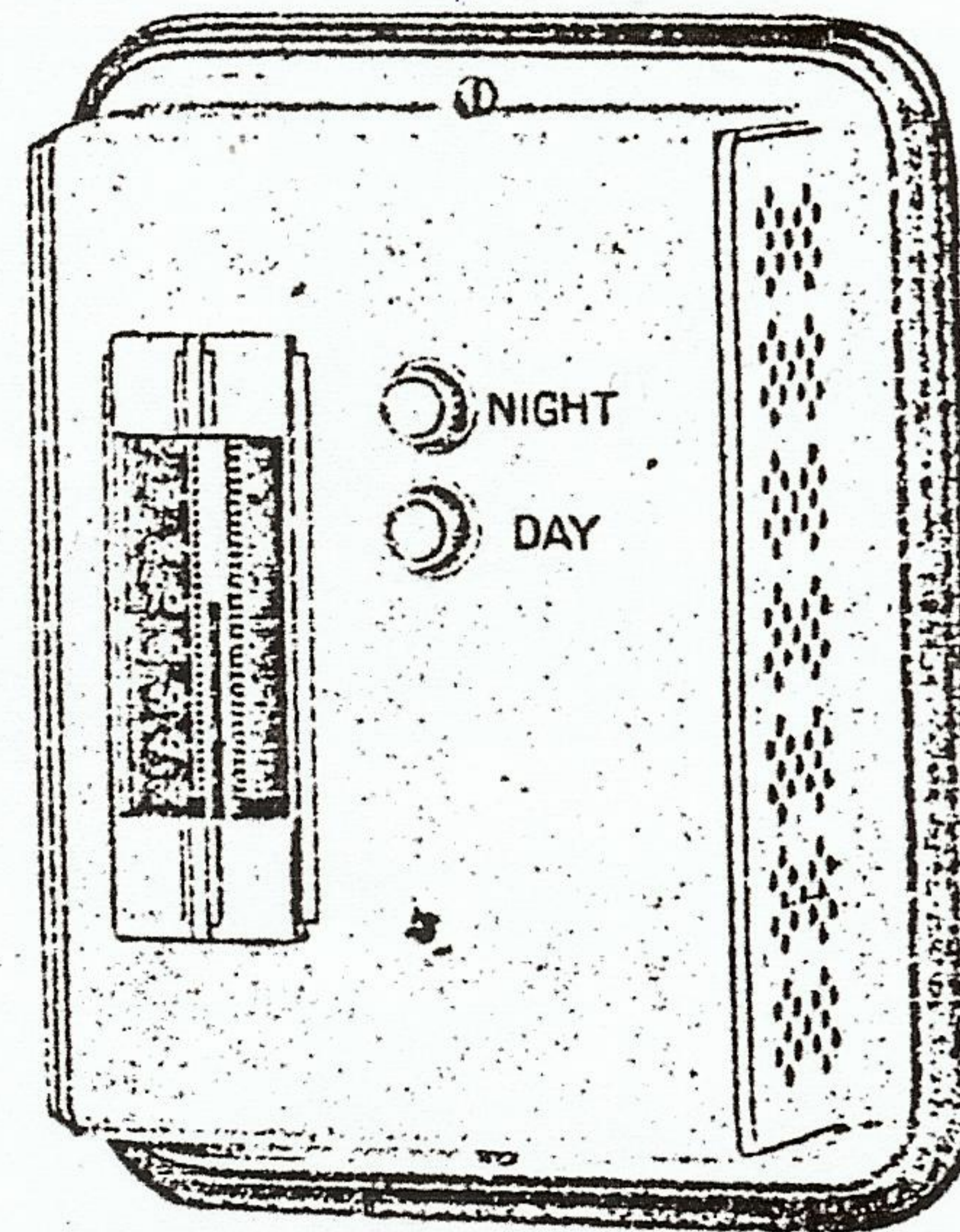


FIG. 2: T-465 THERMOSTAT
WITH COVER SHOWING PUSHBUTTONS

OPERATION

During normal operation the dual pressure provides day and night switchover in the conventional manner. When the system is on night operation, pressing the lower button restores the thermostat to its day setting and also places the unit ventilator on its normal daytime cycle, including continuous fan operation and full automatic control of both heating and ventilating.

Thus any room controlled by a T-465 thermostat can be occupied while the rest of the system remains on normal night control. Pressing the upper button on the thermostat cover returns the room to night control. If the upper button is not pressed, the thermostat will automatically be re-indexed when the system is next switched to the day supply air pressure. The thermostat will then be in phase with the rest of the units on the system.

Pressing either button during day operation has no effect on the thermostat setting or on the normal operation of the unit ventilator.