

ELECTRONIC THERMOSTATS FOR FAN-COIL UNITS

Model A - Integral mode selector WINTER - OFF - SUMMER
Fan speed selector: STOP - SLOW - MEDIUM - FAST

Model B - Input for remote selection of WINTER - SUMMER modes
Fan speed selector: STOP - SLOW - MEDIUM - FAST

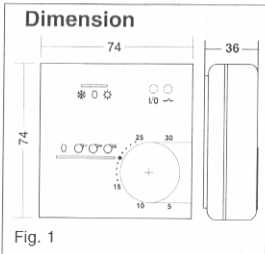
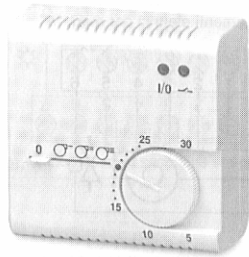


Fig. 1

1 - TECHNICAL DATA

Supply voltage:	250 V~ 50 + 60Hz
Disconnection switch type and device:	1 B / Electronic
Type of output (for type of control):	
- fixed fan	polarized single-pole switch 5(2) A 250 V~
- solenoid valve (thermostat-controlled)	polarized single-pole ON/OFF relay 5(2) A 250 V~
- fan + solenoid valve (thermostat-controlled)	relay + switch max. total capacity 5(2) A 250 V~
Maximum section of wires at terminals:	1.5 mm ²
Insulation:	class II <input type="checkbox"/>
Protection category:	IP40
Pollution:	normal
Operating temperature limits:	0 °C + +50 °C
Fan speed selection:	3 speeds + stop
Type of control:	proportional band (width 1°C)
Temperature control range:	+5 °C + +30 °C (limitable)
Mode of operation (settable):	- thermostat controlled solenoid valve and fixed fan - solenoid valve and fan both thermostat controlled
Reference standard for CE mark:	LVD EN60730-1 EN60730-2-9 EMC EN55014-1 EN55014-2 EN61000-3-2 EN61000-3-3

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2 - CONTROLS AND INDICATORS

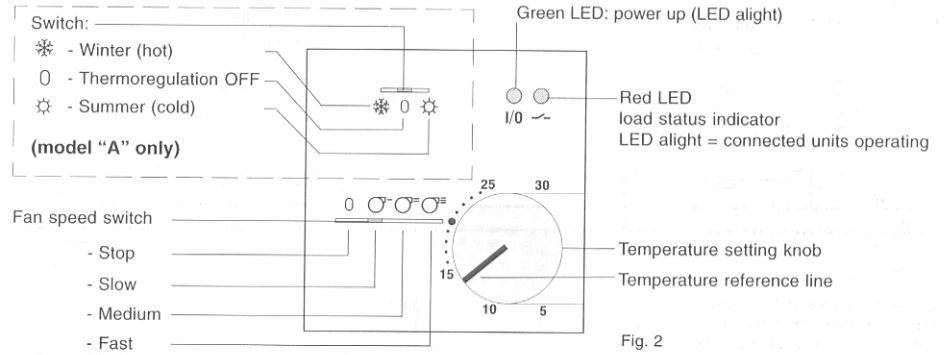


Fig. 2

3 - OPERATION

The thermostats can operate in the following modes: 1) thermostat-controlled solenoid valve and fixed fan (selection via internal jumper)
2) solenoid valve and fan both thermostat-controlled
3) thermostat-controlled fan only (solenoid valve not connected)

In all cases the 3 fan speeds can be selected using the switch located on the front.
For model "A", Heating and Cooling are selected using the front switch; model "B" can be operated from an external remote contact.

Contact open = Winter mode (heating) Contact closed = Summer mode (cooling)

Example of model "B" thermostat installation with Winter/Summer mode selection from boiler room and thermostat control of solenoid valve and fan.

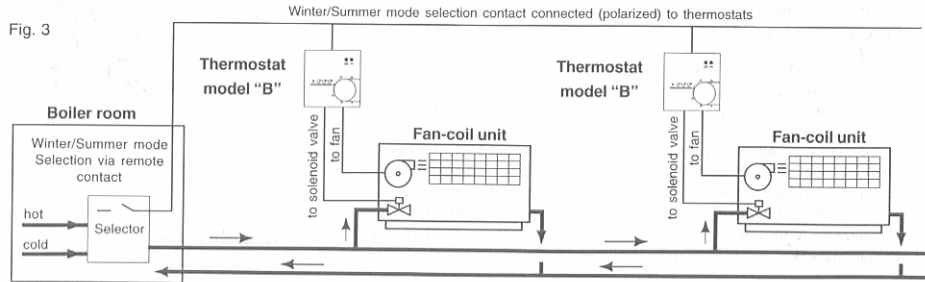
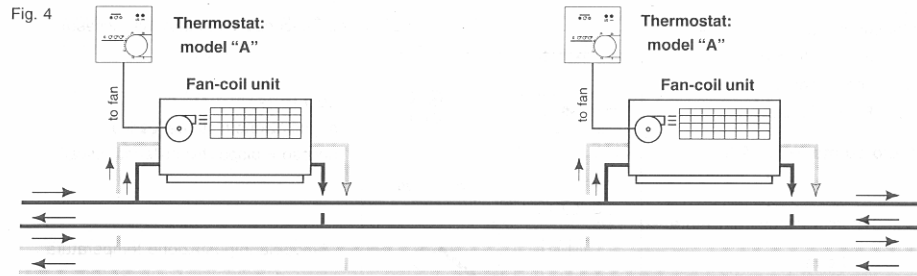
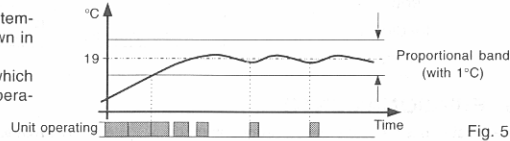


Fig. 3

Example of model "A" installation with thermostat fan control



Both thermostat models operate utilizing proportional temperature regulation within a band width of 1°C, as shown in figure 5. Regulation operates through power on and off cycles which are variable according to differences between set temperature and sensed temperature.



4 - INSTALLATION

IMPORTANT: installation and connection of the thermostat must be performed by a skilled person and in compliance with statutory regulations. The manufacturer declines any liability for the use of products subject to special environmental and/or installation standards.

Installation procedure

- Switch off the mains supply (main switch).
- Cut out the screw template from box and use to locate fixing holes correctly on the wall.
- Open the thermostat as indicated in figure 6:
 - use a screwdriver to remove knob **M**
 - use a crosshead screwdriver to undo screw **V** and remove cover
- Insert the connection wires through the opening in the lower part of the base, then fix the base to the wall with 2 screws.
- Make the electrical connections as indicated in the relative heading.
- Position the **JP1** jumper (fig. 7) for the desired operating mode.
- Close the thermostat, fix the cover using screw **V** (fig. 6), and replace temperature regulation knob **M**.

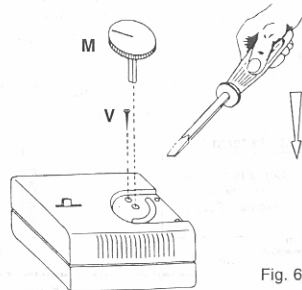


Fig. 6

5 - SELECTING THE FAN-COIL CONTROL MODE

Position the jumper (fig. 7) according to the desired fan mode (the product leaves the factory with the jumper in the "fan thermostat controlled" mode).
N.B.: solenoid valve is always thermostat-controlled

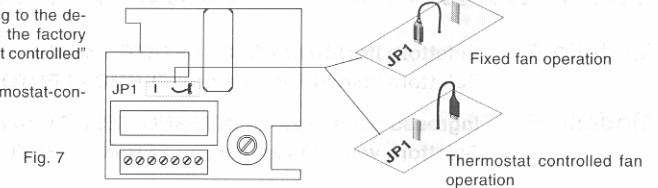


Fig. 7

6 - ELECTRICAL CONNECTIONS

IMPORTANT: The thermostat control outputs are polarized, as is the input for remote selection in model "B". Great care should be taken in connecting up Line and Neutral, especially with two or more thermostats in model "B" applications connected to a single Winter-Summer external contact.

Procedure for connections

- Switch off the mains power supply (main switch).
- Connect terminals 1 (Line) and 2 (Neutral) to mains supply.
- According to type of installation, connect fan speed control wires to terminals 3-4-5:
 - terminal 3 - "Slow" fan speed
 - terminal 4 - "Medium" fan speed
 - terminal 5 - "Fast" fan speed
- Connect the fluid shutoff solenoid valve to terminal 6.

Model "B" only

- Connect the wire coming from the external Winter-Summer ON/OFF selection contact to terminal 7 (contact open = Winter)

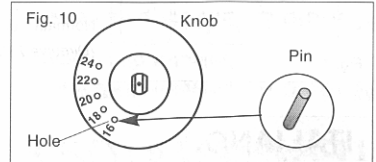
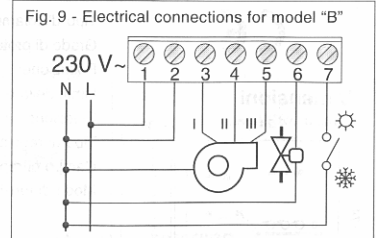
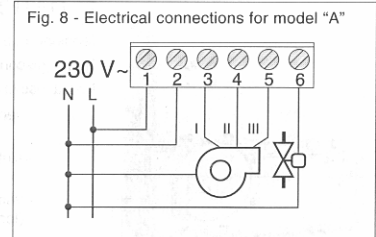
N.B.:

- maximum load at fan terminals (3-4-5): 5(2) A 250 V ~
- maximum load at terminal 5 of valve: 5(2) A 250 V ~
- maximum overall load with fan + valve: 5(2) A 250 V ~

7 - TEMPERATURE LIMITATION

- Use a screwdriver to remove the regulation knob (as shown in figure 6).
- Insert the pin provided in the hole (fig. 10) at the maximum desired temperature position (located in the bottom part of the knob).
- Insert the knob in the thermostat.

N.B.: use two pins to set a max/min temperature range



The manufacturer reserves the right to make all technical and manufacturing modifications deemed necessary without prior notice.