Model Description

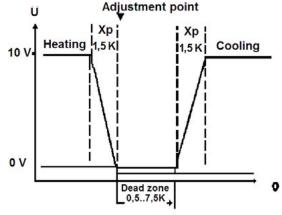
AX526 Room thermostat with two output proportional 0..10 V-, power supply 24 V~

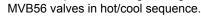
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5T30 °C
24 V~ 50 - 60 Hz
2 outputs 0 10 V-
output 1: reverse
output 2: direct
3 mA (control on every output
one MVT or MVB54/56)
3(2)A terminal output 6
1.5 K on every output
adjustable 0.5 7.5 K
NTC
-5T 40 °C
-25T 65 °C
on wall
IP30
0,11 Kg
Ø 7.9 mm.

336 directive according to

nity EN 50082-1





**APPLICATION** 

AX526 thermostat can also control MVH56 motorised valves.

AX526 room thermostat is used in heating, thermal process, air-conditioning systems, in civil and industrial plants whenever temperature control is required. Control is carried out by a 0..10 V- proportional control of a motorised valve or of two motorised valves in sequence. Typical applications are: reheating coil control with V.XT/MVT or V.B/MVB56 valves, small A.H.U. - D.P.C, multizone plants, heating/cooling coils with V.XT/MVT or V.B/

### **OPERATION**

AX526 thermostat is equipped with a knob for set point adjustment. It is possible to fix the maximum and minimum limit of the adjustable point using the device contained in the knob.

The signal is proportional to a 10...0 V- output with reve tion (heating) while a second 0..10 V- output with direct (cooling). The proportional band of every output is fixed: contrary, the dead zone is adjustable between the two c The set point corresponds to 0 V- signal of the first output ing). In other words, when the set temperature correspond set value, the output 1 signal is 0 V-. Output 2 is fixed at 0 begins increasing when the temperature assumes a value than the set-point plus the set dead zone. In case one hea winter) and one cooling (in summer) valve are available u outside switch, the valve can be switched to output 1 for or to output 2 for cooling (see electrical wiring).

Remote sensor: it is necessary to use the return air STR73, instead of the sensor inside the thermostat.

### MANUFACTURING CHARACTERISTICS

AX526 thermostat is composed by an ivory white ABS housing and a base containing the electronic card and the terminal board. The knob is located on the front part on the right. The output power control is by TRIAC.

# TECHNICAL CHARACTERISTICS

erse ac- ct action	Mounting Protection	on wa IP30	
l; on the	Weight	0,11 K	
outputs.	STR73 remote sensor		
ut (heat-	Bipolar cable 4 m.	Ø 7.9	
ds to the	the Max distance from thermostat 50 m.		
0 V- and e higher ating (in using an heating	The product complies with E the following standards: for emission EN 50081-1	EMC 89/33	
	WIRING DIAGRAM		
sensor			
	U Adju	ustment p	
	Heating 1.5K		

1st Issue rev. d





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### ELECTRICAL CONNECTIONS

The terminal board is accessible by removing the cover. Perform the wiring according to the following diagrams and in compliance with existing standards. Use cables with 1  $mm^2$  minimum cross section.

Warning: the cables connecting the actuator must not be routed in elios pipes carrying voltage lines.

## INSTALLATION AND START-UP

Install the device at approximately 1.5 m from floor level in a zone reflecting the room average temperature.

Avoid mounting in air stagnation areas, near doors, windows or heat sources.

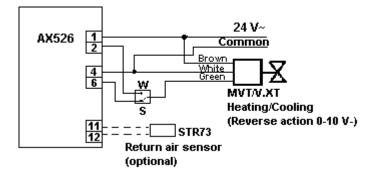
Mount the apparel on wall through the two holes on the base (see overall dimensions) accessible by removing the cover, after pulling off the knob and loosening the screw. Make connections according to the application required; in case of heating/cooling valve sequence, set the dead zone value by positioning the trimmer P3. Place the knob onto the required value.

It is possible to fix the minimum and maximum value of the adjustable set by positioning the cams placed on the back of the knob (the red cam for upper limit, the blue one for the lower).

**NOTE**: When an external sensor is used, it is necessary to cut the inner sensing element (identified on the board as R15) and interrupt the inner jumper (identified on the board as BR1).

### WIRING DIAGRAMS

### Heating and/or cooling valves In case of MVB56 motorised valves, connect as fol-24 V~ AX526 lows: Common MVT/V.XT HEATING AX526 terminals MVB52/56 terminals Vhite Green (REVERSE AC. 0-10V-) 6 1 L1 L2 4 MVT/V.XT COOLING 2 (Heat.) Y Green (DIRECT ACT. 0-10V-) 11 12 6 (Cool.) γ \_ STR73 Return air sensor



(optional)

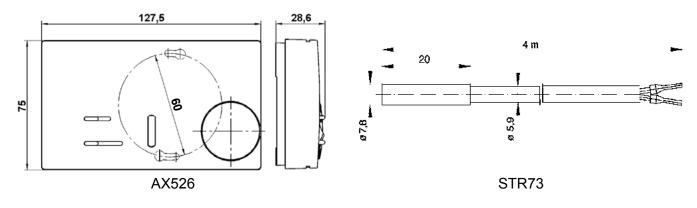
ISO 9001

### Heating and/or cooling valves with outside summer/ winter changeover

In case of MVB56-motorised valves, connect as follows:

AX526 terminals	MVB52/56 terminals
1	L1
4	L2 (Common)
2 (Heat.)	Y
6 (Cool.)	Y





The performances stated in this sheet can be modified without any prior notice due to design improvements

 
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 Automatic control systems for: air conditioning/heating/industrial thermal process.